tt Library

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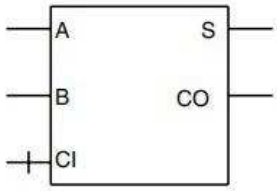
XOR3X6H7R

ADDFX1H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
ADDFX1H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	A	B	CI	CO	S
ADDFX1H7R	0.00268	0.00301	0.00228	0.05753	0.05751

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDFX1H7R	0.00000	0.54654	0.60359

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1H7R	A->CO (RR)	0.07129	0.23009	0.61017
	B->CO (RR)	0.07400	0.23129	0.60958
	CI->CO (RR)	0.07040	0.22874	0.60899

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1H7R	A->CO (FF)	0.08874	0.23165	0.56649
	B->CO (FF)	0.09885	0.23907	0.57208
	CI->CO (FF)	0.09115	0.23076	0.55584

Delay(ns) to S rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1H7R	A->S (-R)	0.17143	0.32969	0.72483
	B->S (-R)	0.17116	0.33184	0.73274
	CI->S (-R)	0.16473	0.32424	0.71892

Delay(ns) to S falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1H7R	A->S (-F)	0.10264	0.25164	0.59373
	B->S (-F)	0.09843	0.23857	0.57033
	CI->S (-F)	0.10733	0.25335	0.58871

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1H7R	A	0.00134	0.00140	0.00149
	A	-0.00005	-0.00004	0.00000
	A	0.00009	0.00010	0.00011
	A	0.00159	0.00165	0.00174
	B	0.00131	0.00137	0.00144
	B	-0.00004	-0.00003	-0.00003
	B	0.00005	0.00005	0.00006
	B	0.00178	0.00184	0.00190
	CI	0.00136	0.00141	0.00145
	CI	-0.00004	-0.00003	-0.00001
	CI	0.00003	0.00005	0.00008
	CI	0.00160	0.00164	0.00168

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1H7R	A	0.00158	0.00164	0.00176
	A	0.00011	0.00011	0.00015
	A	-0.00005	-0.00004	-0.00002
	A	0.00136	0.00143	0.00152
	B	0.00165	0.00171	0.00180
	B	0.00004	0.00006	0.00007
	B	-0.00004	-0.00003	-0.00002
	B	0.00116	0.00122	0.00132
	CI	0.00164	0.00168	0.00173
	CI	0.00004	0.00005	0.00006
	CI	-0.00003	-0.00002	-0.00001
	CI	0.00138	0.00142	0.00148

Internal switching power(pJ) to S rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1H7R	A	0.00158	0.00164	0.00176
	A	0.00008	0.00014	0.00014
	A	0.00003	0.00003	0.00008
	A	0.00264	0.00272	0.00301
	B	0.00165	0.00171	0.00181
	B	0.00024	0.00024	0.00025
	B	-0.00004	-0.00003	0.00000
	B	0.00314	0.00321	0.00335
	CI	0.00164	0.00168	0.00173
	CI	0.00019	0.00019	0.00020
	CI	-0.00002	-0.00002	0.00000
	CI	0.00247	0.00255	0.00274

Internal switching power(pJ) to S falling :

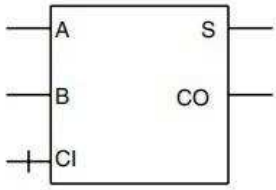
Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1H7R	A	0.00279	0.00288	0.00325
	A	-0.00001	0.00002	0.00004
	A	0.00011	0.00012	0.00014
	A	0.00159	0.00165	0.00174
	B	0.00298	0.00305	0.00323
	B	-0.00002	-0.00002	-0.00000
	B	0.00020	0.00020	0.00021
	B	0.00177	0.00183	0.00190
	CI	0.00260	0.00268	0.00292
	CI	-0.00004	-0.00003	-0.00001
	CI	0.00015	0.00017	0.00017
	CI	0.00160	0.00164	0.00168

ADDFX1P4H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
ADDFX1P4H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	A	B	CI	CO	S
ADDFX1P4H7R	0.00270	0.00307	0.00232	0.06571	0.06572

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDFX1P4H7R	0.00000	0.58013	0.63714

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1P4H7R	A->CO (RR)	0.07154	0.23195	0.61482
	B->CO (RR)	0.07469	0.23327	0.61385
	CI->CO (RR)	0.07063	0.23035	0.61255

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1P4H7R	A->CO (FF)	0.09508	0.23698	0.57099
	B->CO (FF)	0.10030	0.24208	0.57739
	CI->CO (FF)	0.09189	0.23303	0.55998

Delay(ns) to S rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1P4H7R	A->S (-R)	0.17521	0.33427	0.73144
	B->S (-R)	0.17524	0.33675	0.73877
	CI->S (-R)	0.16823	0.32846	0.72471

Delay(ns) to S falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX1P4H7R	A->S (-F)	0.10212	0.25267	0.59616
	B->S (-F)	0.15616	0.28682	0.57458
	CI->S (-F)	0.10690	0.25434	0.59086

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1P4H7R	A	0.00137	0.00144	0.00154
	A	-0.00005	-0.00005	-0.00003
	A	0.00005	0.00010	0.00012
	A	0.00164	0.00170	0.00181
	B	0.00133	0.00140	0.00148
	B	-0.00004	-0.00003	-0.00000
	B	0.00001	0.00005	0.00006
	B	0.00184	0.00190	0.00198
	CI	0.00140	0.00144	0.00149
	CI	-0.00003	-0.00003	-0.00001
	CI	0.00004	0.00005	0.00005
	CI	0.00165	0.00170	0.00174

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1P4H7R	A	0.00163	0.00170	0.00183
	A	0.00010	0.00011	0.00012
	A	-0.00005	-0.00004	-0.00002
	A	0.00141	0.00148	0.00158
	B	0.00172	0.00178	0.00189
	B	0.00005	0.00006	0.00006
	B	-0.00006	-0.00005	-0.00001
	B	0.00118	0.00126	0.00136
	CI	0.00170	0.00174	0.00180
	CI	0.00005	0.00005	0.00007
	CI	-0.00003	-0.00002	-0.00002
	CI	0.00142	0.00146	0.00153

Internal switching power(pJ) to S rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1P4H7R	A	0.00163	0.00170	0.00183
	A	0.00013	0.00014	0.00015
	A	0.00000	0.00003	0.00003
	A	0.00269	0.00277	0.00309
	B	0.00172	0.00178	0.00189
	B	0.00023	0.00023	0.00026
	B	-0.00001	-0.00000	0.00007
	B	0.00322	0.00329	0.00345
	CI	0.00170	0.00174	0.00181
	CI	0.00016	0.00019	0.00019
	CI	-0.00003	-0.00001	0.00001
	CI	0.00253	0.00261	0.00282

Internal switching power(pJ) to S falling :

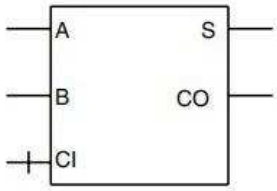
Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX1P4H7R	A	0.00283	0.00293	0.00333
	A	0.00000	0.00002	0.00004
	A	0.00011	0.00012	0.00013
	A	0.00164	0.00170	0.00181
	B	0.00304	0.00311	0.00331
	B	-0.00003	-0.00001	0.00005
	B	0.00015	0.00020	0.00023
	B	0.00184	0.00190	0.00198
	CI	0.00264	0.00271	0.00298
	CI	-0.00002	-0.00002	0.00000
	CI	0.00015	0.00016	0.00017
	CI	0.00165	0.00170	0.00174

ADDFX2H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
ADDFX2H7R	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	A	B	CI	CO	S
ADDFX2H7R	0.00270	0.00316	0.00220	0.08536	0.08479

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDFX2H7R	0.00000	0.67100	0.72794

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX2H7R	A->CO (RR)	0.07575	0.23989	0.63001
	B->CO (RR)	0.07973	0.24231	0.63093
	CI->CO (RR)	0.07539	0.23875	0.62829

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX2H7R	A->CO (FF)	0.09563	0.24429	0.58666
	B->CO (FF)	0.10685	0.25188	0.59179
	CI->CO (FF)	0.09860	0.24299	0.57385

Delay(ns) to S rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX2H7R	A->S (-R)	0.19203	0.35213	0.75314
	B->S (-R)	0.19219	0.35449	0.76066
	CI->S (-R)	0.18613	0.34697	0.74643

Delay(ns) to S falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDFX2H7R	A->S (-F)	0.10896	0.26260	0.60901
	B->S (-F)	0.17067	0.30352	0.59373
	CI->S (-F)	0.11206	0.26306	0.60260

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX2H7R	A	0.00162	0.00169	0.00186
	A	-0.00006	-0.00005	-0.00003
	A	0.00008	0.00010	0.00011
	A	0.00190	0.00197	0.00215
	B	0.00159	0.00166	0.00179
	B	-0.00003	-0.00003	-0.00003
	B	0.00004	0.00005	0.00009
	B	0.00212	0.00218	0.00232
	CI	0.00166	0.00171	0.00179
	CI	-0.00004	-0.00003	-0.00001
	CI	0.00004	0.00005	0.00005
	CI	0.00191	0.00196	0.00204

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX2H7R	A	0.00190	0.00197	0.00218
	A	0.00008	0.00011	0.00011
	A	-0.00006	-0.00004	0.00000
	A	0.00164	0.00172	0.00189
	B	0.00198	0.00205	0.00222
	B	0.00005	0.00006	0.00006
	B	-0.00004	-0.00003	0.00000
	B	0.00144	0.00151	0.00168
	CI	0.00194	0.00199	0.00210
	CI	0.00004	0.00005	0.00009
	CI	-0.00005	-0.00002	-0.00000
	CI	0.00167	0.00172	0.00183

Internal switching power(pJ) to S rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX2H7R	A	0.00190	0.00197	0.00218
	A	0.00011	0.00013	0.00014
	A	-0.00000	0.00004	0.00015
	A	0.00291	0.00301	0.00344
	B	0.00198	0.00205	0.00222
	B	0.00022	0.00023	0.00024
	B	0.00000	0.00001	0.00004
	B	0.00345	0.00353	0.00375
	CI	0.00195	0.00199	0.00210
	CI	0.00017	0.00018	0.00019
	CI	-0.00017	-0.00014	0.00080
	CI	0.00183	0.00279	0.00311

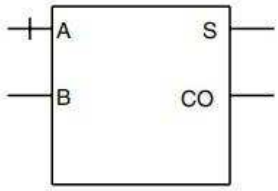
Internal switching power(pJ) to S falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDFX2H7R	A	0.00308	0.00320	0.00376
	A	-0.00000	0.00003	0.00008
	A	0.00008	0.00010	0.00014
	A	0.00190	0.00197	0.00214
	B	0.00331	0.00340	0.00369
	B	-0.00001	-0.00000	0.00008
	B	0.00019	0.00019	0.00020
	B	0.00212	0.00218	0.00231
	CI	0.00287	0.00297	0.00335
	CI	-0.00001	-0.00001	0.00001
	CI	0.00015	0.00016	0.00017
	CI	0.00191	0.00196	0.00204

ADDHX1H7R

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
ADDHX1H7R	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	A	B	CO	S
ADDHX1H7R	0.00204	0.00333	0.07033	0.07035

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDHX1H7R	0.00000	1.02112	1.11899

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX1H7R	A->CO (RR)	0.03396	0.17271	0.51180
	B->CO (RR)	0.03602	0.17538	0.51776

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX1H7R	A->CO (FF)	0.03204	0.15568	0.45871
	B->CO (FF)	0.03473	0.15998	0.46403

Delay(ns) to S rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX1H7R	A->S (RR)	!B	0.04995	0.20334	0.57518
	A->S (FR)	B	0.06320	0.21013	0.56771
	B->S (RR)	!A	0.03630	0.17712	0.52205
	B->S (FR)	A	0.04548	0.19367	0.55232

Delay(ns) to S falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX1H7R	A->S (FF)	!B	0.05286	0.18604	0.50333
	A->S (RF)	B	0.06550	0.18608	0.46391
	B->S (FF)	!A	0.03573	0.15765	0.45397
	B->S (RF)	A	0.04701	0.16583	0.43636

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX1H7R	A	0.00117	0.00134	0.00184
	A	-0.00002	-0.00002	-0.00000
	A	0.00002	0.00002	0.00003
	A	0.00178	0.00195	0.00245
	B	0.00091	0.00112	0.00177
	B	-0.00001	-0.00000	0.00000
	B	-0.00002	-0.00001	0.00000
	B	0.00198	0.00218	0.00286

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX1H7R	A	0.00170	0.00188	0.00243
	A	0.00002	0.00002	0.00002
	A	-0.00003	-0.00002	-0.00001
	A	0.00110	0.00127	0.00181
	B	0.00174	0.00201	0.00272
	B	0.00000	0.00001	0.00005
	B	0.00000	0.00001	0.00002
	B	0.00072	0.00095	0.00166

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

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX1H7R	A	B	0.00170	0.00188	0.00244
	A	B	0.00002	0.00002	0.00002
	A	B	-0.00002	-0.00002	-0.00001
	A	B	0.00108	0.00127	0.00184
	A	!B	0.00121	0.00140	0.00204
	A	!B	0.00006	0.00006	0.00006
	A	!B	-0.00000	0.00000	0.00000
	A	!B	0.00282	0.00301	0.00366
	B	A	0.00178	0.00201	0.00275
	B	A	0.00000	0.00000	0.00001
	B	A	0.00000	0.00001	0.00003
	B	A	0.00072	0.00095	0.00169
	B	!A	0.00024	0.00056	0.00164
	B	!A	0.00008	0.00009	0.00009
	B	!A	-0.00006	-0.00006	-0.00005
	B	!A	0.00276	0.00308	0.00416

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

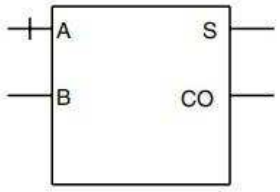
Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX1H7R	A	B	0.00117	0.00134	0.00184
	A	B	-0.00002	-0.00002	-0.00002
	A	B	0.00001	0.00002	0.00002
	A	B	0.00179	0.00195	0.00245
	A	!B	0.00287	0.00308	0.00377
	A	!B	-0.00006	-0.00006	-0.00004
	A	!B	0.00002	0.00002	0.00002
	A	!B	0.00122	0.00142	0.00211
	B	A	0.00091	0.00112	0.00177
	B	A	-0.00000	-0.00000	0.00001
	B	A	-0.00002	-0.00001	0.00000
	B	A	0.00198	0.00218	0.00286
	B	!A	0.00259	0.00294	0.00410
	B	!A	-0.00009	-0.00009	-0.00008
	B	!A	0.00005	0.00006	0.00006
	B	!A	0.00009	0.00044	0.00160

ADDHX1P4H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
ADDHX1P4H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	A	B	CO	S
ADDHX1P4H7R	0.00213	0.00343	0.07479	0.07492

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDHX1P4H7R	0.00000	1.10639	1.21182

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX1P4H7R	A->CO (RR)	0.03368	0.17281	0.51251
	B->CO (RR)	0.03606	0.17576	0.51879

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX1P4H7R	A->CO (FF)	0.03192	0.15660	0.46182
	B->CO (FF)	0.03489	0.16117	0.46768

Delay(ns) to S rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX1P4H7R	A->S (RR)	!B	0.04683	0.19868	0.56738
	A->S (FR)	B	0.05798	0.20406	0.56041
	B->S (RR)	!A	0.03325	0.17331	0.51683
	B->S (FR)	A	0.04353	0.19136	0.54914

Delay(ns) to S falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX1P4H7R	A->S (FF)	!B	0.04948	0.18229	0.49966
	A->S (RF)	B	0.05970	0.17931	0.45654
	B->S (FF)	!A	0.03369	0.15591	0.45368
	B->S (RF)	A	0.04361	0.16233	0.43370

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX1P4H7R	A	0.00123	0.00142	0.00197
	A	-0.00002	-0.00002	-0.00001
	A	0.00001	0.00002	0.00003
	A	0.00187	0.00204	0.00261
	B	0.00094	0.00116	0.00184
	B	-0.00001	-0.00001	0.00000
	B	-0.00001	-0.00001	0.00000
	B	0.00203	0.00224	0.00294

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX1P4H7R	A	0.00176	0.00196	0.00255
	A	0.00002	0.00002	0.00003
	A	-0.00003	-0.00002	-0.00001
	A	0.00113	0.00133	0.00192
	B	0.00182	0.00207	0.00281
	B	0.00000	0.00001	0.00001
	B	0.00001	0.00001	0.00004
	B	0.00072	0.00099	0.00174

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

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX1P4H7R	A	B	0.00176	0.00196	0.00257
	A	B	0.00002	0.00002	0.00003
	A	B	-0.00002	-0.00002	-0.00001
	A	B	0.00114	0.00133	0.00195
	A	!B	0.00128	0.00150	0.00224
	A	!B	0.00006	0.00006	0.00008
	A	!B	-0.00000	0.00000	0.00005
	A	!B	0.00295	0.00317	0.00392
	B	A	0.00182	0.00207	0.00281
	B	A	0.00001	0.00001	0.00001
	B	A	0.00001	0.00001	0.00001
	B	A	0.00075	0.00099	0.00174
	B	!A	0.00022	0.00056	0.00172
	B	!A	0.00009	0.00009	0.00011
	B	!A	-0.00007	-0.00006	-0.00006
	B	!A	0.00280	0.00314	0.00431

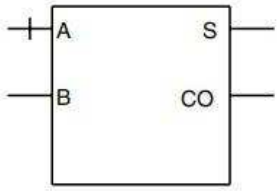
Internal switching power(pJ) to S falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX1P4H7R	A	B	0.00124	0.00142	0.00196
	A	B	-0.00002	-0.00002	-0.00002
	A	B	0.00002	0.00002	0.00003
	A	B	0.00187	0.00204	0.00259
	A	!B	0.00300	0.00323	0.00403
	A	!B	-0.00006	-0.00006	-0.00003
	A	!B	0.00002	0.00002	0.00002
	A	!B	0.00128	0.00150	0.00230
	B	A	0.00094	0.00116	0.00183
	B	A	-0.00001	-0.00001	-0.00000
	B	A	-0.00001	-0.00001	-0.00000
	B	A	0.00202	0.00224	0.00292
	B	!A	0.00266	0.00303	0.00427
	B	!A	-0.00010	-0.00009	-0.00005
	B	!A	0.00006	0.00006	0.00007
	B	!A	0.00010	0.00047	0.00171

ADDHX2H7R

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
ADDHX2H7R	7.00000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	A	B	CO	S
ADDHX2H7R	0.00240	0.00362	0.08089	0.08102

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ADDHX2H7R	0.00000	1.26618	1.35885

Delay Information

Delay(ns) to CO rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX2H7R	A->CO (RR)	0.03337	0.17286	0.51294
	B->CO (RR)	0.03598	0.17595	0.51892

Delay(ns) to CO falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ADDHX2H7R	A->CO (FF)	0.03163	0.15638	0.46119
	B->CO (FF)	0.03482	0.16112	0.46726

Delay(ns) to S rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX2H7R	A->S (RR)	!B	0.04107	0.18631	0.54026
	A->S (FR)	B	0.05419	0.19940	0.55536
	B->S (RR)	!A	0.03150	0.17072	0.51306
	B->S (FR)	A	0.04283	0.19108	0.55012

Delay(ns) to S falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ADDHX2H7R	A->S (FF)	!B	0.04384	0.17363	0.48578
	A->S (RF)	B	0.05528	0.16996	0.43649
	B->S (FF)	!A	0.03013	0.14969	0.44255
	B->S (RF)	A	0.04421	0.16339	0.43547

Power Information

Internal switching power(pJ) to CO rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX2H7R	A	0.00129	0.00151	0.00224
	A	-0.00002	-0.00002	-0.00001
	A	0.00001	0.00002	0.00002
	A	0.00205	0.00228	0.00302
	B	0.00103	0.00127	0.00198
	B	-0.00001	-0.00001	0.00002
	B	-0.00001	-0.00001	-0.00001
	B	0.00219	0.00242	0.00314

Internal switching power(pJ) to CO falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ADDHX2H7R	A	0.00200	0.00225	0.00305
	A	0.00002	0.00002	0.00002
	A	-0.00002	-0.00002	-0.00001
	A	0.00124	0.00148	0.00228
	B	0.00199	0.00225	0.00303
	B	0.00001	0.00001	0.00001
	B	0.00001	0.00001	0.00001
	B	0.00084	0.00110	0.00188

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

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX2H7R	A	B	0.00200	0.00226	0.00308
	A	B	0.00002	0.00002	0.00003
	A	B	-0.00002	-0.00002	0.00000
	A	B	0.00123	0.00149	0.00232
	A	!B	0.00148	0.00179	0.00283
	A	!B	0.00004	0.00008	0.00008
	A	!B	-0.00004	-0.00002	-0.00002
	A	!B	0.00343	0.00376	0.00480
	B	A	0.00199	0.00225	0.00304
	B	A	0.00001	0.00001	0.00001
	B	A	0.00001	0.00001	0.00001
	B	A	0.00084	0.00110	0.00189
	B	!A	0.00029	0.00066	0.00193
	B	!A	0.00010	0.00010	0.00011
	B	!A	-0.00008	-0.00007	-0.00006
	B	!A	0.00301	0.00339	0.00465

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

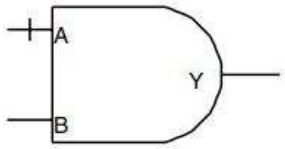
Cell Name	Input	When	Power(pJ)		
			min	avg	max
ADDHX2H7R	A	B	0.00128	0.00151	0.00226
	A	B	-0.00002	-0.00002	-0.00002
	A	B	0.00002	0.00002	0.00002
	A	B	0.00204	0.00228	0.00304
	A	!B	0.00330	0.00366	0.00481
	A	!B	-0.00008	-0.00008	-0.00004
	A	!B	0.00004	0.00004	0.00004
	A	!B	0.00131	0.00164	0.00279
	B	A	0.00104	0.00126	0.00197
	B	A	-0.00001	-0.00001	-0.00000
	B	A	-0.00001	-0.00001	0.00000
	B	A	0.00218	0.00242	0.00314
	B	!A	0.00280	0.00320	0.00456
	B	!A	-0.00011	-0.00010	-0.00007
	B	!A	0.00006	0.00007	0.00008
	B	!A	0.00008	0.00049	0.00185

AND2X0P5H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X0P5H7R	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X0P5H7R	0.00076	0.00070	0.04262

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X0P5H7R	0.00000	0.14978	0.22812

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X0P5H7R	A->Y (RR)	0.04356	0.18368	0.52865
	B->Y (RR)	0.04073	0.18048	0.52265

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X0P5H7R	A->Y (FF)	0.03572	0.14979	0.42611
	B->Y (FF)	0.03293	0.14516	0.41941

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X0P5H7R	A	0.00032	0.00041	0.00066
	A	0.00002	0.00002	0.00003
	A	-0.00004	-0.00004	-0.00004
	A	0.00106	0.00115	0.00139
	B	0.00033	0.00045	0.00079
	B	0.00002	0.00002	0.00003
	B	-0.00000	0.00000	0.00000
	B	0.00094	0.00106	0.00141

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X0P5H7R	A	0.00113	0.00125	0.00159
	A	-0.00002	-0.00002	-0.00002
	A	0.00004	0.00004	0.00004
	A	0.00040	0.00052	0.00087
	B	0.00100	0.00113	0.00152
	B	-0.00003	-0.00002	-0.00002
	B	-0.00000	-0.00000	0.00000
	B	0.00039	0.00052	0.00091

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P5H7R	(!B * !Y)	-0.00019	-0.00019	-0.00019
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	0.00015	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P5H7R	(!B * !Y)	0.00019	0.00020	0.00020
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	-0.00015	-0.00014	-0.00014

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P5H7R	(!A * !Y)	-0.00019	-0.00018	-0.00018
	(!A * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !Y)	0.00002	0.00002	0.00002
	(!A * !Y)	0.00009	0.00009	0.00009

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

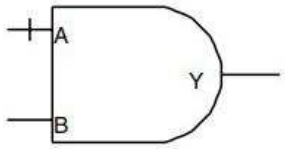
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P5H7R	(!A * !Y)	0.00018	0.00018	0.00019
	(!A * !Y)	0.00000	0.00000	0.00000
	(!A * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !Y)	-0.00009	-0.00009	-0.00009

AND2X0P7H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X0P7H7R	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X0P7H7R	0.00075	0.00069	0.04838

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X0P7H7R	0.00000	0.15943	0.24580

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X0P7H7R	A->Y (RR)	0.04288	0.18363	0.52988
	B->Y (RR)	0.04002	0.18055	0.52416

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X0P7H7R	A->Y (FF)	0.03515	0.14971	0.42633
	B->Y (FF)	0.03239	0.14512	0.42008

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X0P7H7R	A	0.00034	0.00044	0.00067
	A	0.00002	0.00002	0.00002
	A	-0.00004	-0.00003	-0.00003
	A	0.00108	0.00117	0.00141
	B	0.00036	0.00048	0.00083
	B	0.00002	0.00002	0.00002
	B	0.00000	0.00000	0.00001
	B	0.00096	0.00109	0.00143

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X0P7H7R	A	0.00115	0.00127	0.00161
	A	-0.00002	-0.00002	-0.00002
	A	0.00003	0.00003	0.00004
	A	0.00042	0.00054	0.00090
	B	0.00102	0.00115	0.00154
	B	-0.00002	-0.00002	-0.00002
	B	-0.00000	-0.00000	0.00000
	B	0.00042	0.00055	0.00094

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P7H7R	(!B * !Y)	-0.00019	-0.00019	-0.00019
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	0.00015	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P7H7R	(!B * !Y)	0.00019	0.00019	0.00020
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	-0.00015	-0.00014	-0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P7H7R	(!A * !Y)	-0.00019	-0.00018	-0.00018
	(!A * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !Y)	0.00002	0.00002	0.00002
	(!A * !Y)	0.00009	0.00009	0.00009

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

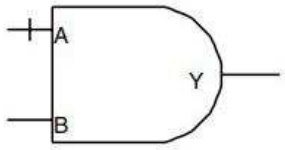
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X0P7H7R	(!A * !Y)	0.00018	0.00018	0.00019
	(!A * !Y)	0.00000	0.00000	0.00000
	(!A * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !Y)	-0.00009	-0.00009	-0.00009

AND2X12H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X12H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X12H7R	0.00246	0.00288	0.48082

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X12H7R	0.00000	1.19860	1.96847

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X12H7R	A->Y (RR)	0.03581	0.18113	0.53213
	B->Y (RR)	0.03370	0.17740	0.52258

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X12H7R	A->Y (FF)	0.03361	0.15721	0.44935
	B->Y (FF)	0.03121	0.15256	0.44261

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X12H7R	A	0.00328	0.00377	0.00538
	A	-0.00003	-0.00003	-0.00001
	A	-0.00012	-0.00012	-0.00011
	A	0.00603	0.00654	0.00814
	B	0.00324	0.00392	0.00650
	B	-0.00004	-0.00003	-0.00002
	B	0.00008	0.00010	0.00013
	B	0.00536	0.00607	0.00863

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X12H7R	A	0.00634	0.00699	0.00948
	A	0.00001	0.00003	0.00003
	A	0.00011	0.00012	0.00012
	A	0.00366	0.00430	0.00680
	B	0.00568	0.00643	0.00914
	B	0.00002	0.00003	0.00005
	B	-0.00010	-0.00010	-0.00008
	B	0.00358	0.00426	0.00701

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X12H7R	(!B * !Y)	-0.00054	-0.00054	-0.00053
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00003	0.00003	0.00003
	(!B * !Y)	0.00071	0.00072	0.00072

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X12H7R	(!B * !Y)	0.00055	0.00056	0.00060
	(!B * !Y)	0.00001	0.00002	0.00002
	(!B * !Y)	-0.00003	-0.00003	-0.00003
	(!B * !Y)	-0.00069	-0.00065	-0.00060

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X12H7R	(!A * !Y)	-0.00085	-0.00085	-0.00084
	(!A * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !Y)	0.00010	0.00010	0.00010
	(!A * !Y)	0.00022	0.00022	0.00022

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

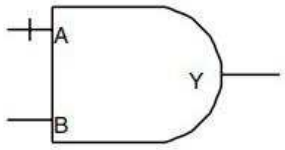
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X12H7R	(!A * !Y)	0.00084	0.00085	0.00086
	(!A * !Y)	0.00001	0.00002	0.00002
	(!A * !Y)	-0.00010	-0.00010	-0.00009
	(!A * !Y)	-0.00022	-0.00022	-0.00022

AND2X16H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X16H7R	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X16H7R	0.00336	0.00345	0.62662

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X16H7R	0.00000	1.54786	2.51510

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X16H7R	A->Y (RR)	0.03301	0.17691	0.52500
	B->Y (RR)	0.03057	0.17329	0.51744

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X16H7R	A->Y (FF)	0.03118	0.15413	0.44584
	B->Y (FF)	0.02845	0.14888	0.43744

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X16H7R	A	0.00385	0.00448	0.00662
	A	-0.00004	-0.00004	-0.00003
	A	-0.00015	-0.00015	-0.00005
	A	0.00736	0.00810	0.01022
	B	0.00384	0.00470	0.00806
	B	-0.00005	-0.00004	0.00000
	B	0.00010	0.00013	0.00026
	B	0.00630	0.00730	0.01065

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X16H7R	A	0.00774	0.00860	0.01185
	A	0.00004	0.00004	0.00004
	A	0.00014	0.00015	0.00015
	A	0.00423	0.00507	0.00833
	B	0.00681	0.00776	0.01127
	B	0.00000	0.00004	0.00009
	B	-0.00013	-0.00012	-0.00008
	B	0.00421	0.00512	0.00869

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X16H7R	(!B * !Y)	-0.00073	-0.00072	-0.00072
	(!B * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !Y)	0.00005	0.00005	0.00005
	(!B * !Y)	0.00098	0.00099	0.00100

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X16H7R	(!B * !Y)	0.00074	0.00076	0.00082
	(!B * !Y)	0.00002	0.00002	0.00002
	(!B * !Y)	-0.00005	-0.00005	-0.00005
	(!B * !Y)	-0.00096	-0.00090	-0.00083

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X16H7R	(!A * !Y)	-0.00105	-0.00104	-0.00104
	(!A * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !Y)	0.00011	0.00012	0.00012
	(!A * !Y)	0.00025	0.00026	0.00027

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

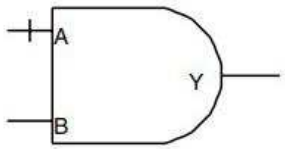
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X16H7R	(!A * !Y)	0.00104	0.00105	0.00105
	(!A * !Y)	0.00002	0.00002	0.00002
	(!A * !Y)	-0.00012	-0.00012	-0.00011
	(!A * !Y)	-0.00025	-0.00025	-0.00025

AND2X1H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X1H7R	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X1H7R	0.00074	0.00066	0.05771

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X1H7R	0.00000	0.17372	0.27002

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X1H7R	A->Y (RR)	0.03895	0.17910	0.52429
	B->Y (RR)	0.03609	0.17580	0.51886

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X1H7R	A->Y (FF)	0.03217	0.14767	0.42759
	B->Y (FF)	0.02941	0.14296	0.42141

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X1H7R	A	0.00031	0.00040	0.00066
	A	0.00001	0.00002	0.00002
	A	-0.00003	-0.00003	-0.00002
	A	0.00103	0.00112	0.00137
	B	0.00033	0.00044	0.00082
	B	0.00001	0.00002	0.00002
	B	0.00000	0.00001	0.00001
	B	0.00089	0.00101	0.00138

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X1H7R	A	0.00107	0.00118	0.00155
	A	-0.00002	-0.00002	-0.00001
	A	0.00003	0.00003	0.00003
	A	0.00035	0.00047	0.00085
	B	0.00094	0.00106	0.00148
	B	-0.00002	-0.00002	-0.00001
	B	-0.00001	-0.00001	-0.00000
	B	0.00036	0.00050	0.00092

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1H7R	(!B * !Y)	-0.00019	-0.00019	-0.00019
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	0.00015	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1H7R	(!B * !Y)	0.00019	0.00019	0.00020
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	-0.00015	-0.00014	-0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1H7R	(!A * !Y)	-0.00018	-0.00018	-0.00018
	(!A * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !Y)	0.00002	0.00002	0.00002
	(!A * !Y)	0.00006	0.00006	0.00006

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

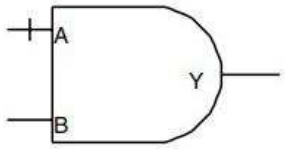
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1H7R	(!A * !Y)	0.00018	0.00018	0.00018
	(!A * !Y)	0.00000	0.00000	0.00000
	(!A * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !Y)	-0.00006	-0.00006	-0.00006

AND2X1P4H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X1P4H7R	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X1P4H7R	0.00075	0.00069	0.06579

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X1P4H7R	0.00000	0.18691	0.29401

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X1P4H7R	A->Y (RR)	0.04183	0.18413	0.53298
	B->Y (RR)	0.03895	0.18112	0.52744

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X1P4H7R	A->Y (FF)	0.03447	0.15194	0.43512
	B->Y (FF)	0.03171	0.14740	0.42833

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X1P4H7R	A	0.00042	0.00051	0.00076
	A	0.00001	0.00001	0.00001
	A	-0.00003	-0.00003	-0.00002
	A	0.00113	0.00123	0.00147
	B	0.00044	0.00055	0.00093
	B	0.00001	0.00001	0.00001
	B	0.00001	0.00001	0.00001
	B	0.00102	0.00114	0.00152

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X1P4H7R	A	0.00120	0.00132	0.00170
	A	-0.00001	-0.00001	-0.00001
	A	0.00003	0.00003	0.00003
	A	0.00049	0.00061	0.00098
	B	0.00106	0.00120	0.00162
	B	-0.00001	-0.00001	-0.00001
	B	-0.00001	-0.00001	-0.00001
	B	0.00048	0.00062	0.00103

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1P4H7R	(!B * !Y)	-0.00019	-0.00019	-0.00019
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	0.00015	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1P4H7R	(!B * !Y)	0.00019	0.00020	0.00020
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	-0.00014	-0.00014	-0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1P4H7R	(!A * !Y)	-0.00018	-0.00018	-0.00018
	(!A * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !Y)	0.00002	0.00002	0.00002
	(!A * !Y)	0.00008	0.00009	0.00009

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

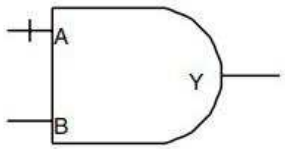
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X1P4H7R	(!A * !Y)	0.00018	0.00018	0.00018
	(!A * !Y)	0.00000	0.00000	0.00000
	(!A * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !Y)	-0.00009	-0.00009	-0.00008

AND2X2H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X2H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X2H7R	0.00072	0.00068	0.08518

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X2H7R	0.00000	0.21792	0.36829

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X2H7R	A->Y (RR)	0.04703	0.19411	0.55264
	B->Y (RR)	0.04427	0.19154	0.54638

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X2H7R	A->Y (FF)	0.03861	0.15932	0.44734
	B->Y (FF)	0.03597	0.15508	0.44052

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X2H7R	A	0.00066	0.00076	0.00105
	A	0.00000	0.00000	0.00001
	A	-0.00002	-0.00002	-0.00001
	A	0.00134	0.00145	0.00173
	B	0.00067	0.00080	0.00124
	B	0.00000	0.00000	0.00000
	B	0.00001	0.00002	0.00003
	B	0.00122	0.00136	0.00180

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X2H7R	A	0.00146	0.00160	0.00203
	A	-0.00000	-0.00000	0.00000
	A	0.00002	0.00002	0.00002
	A	0.00078	0.00092	0.00135
	B	0.00134	0.00148	0.00194
	B	-0.00000	-0.00000	0.00001
	B	-0.00002	-0.00002	-0.00000
	B	0.00078	0.00092	0.00138

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X2H7R	(!B * !Y)	-0.00019	-0.00019	-0.00018
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	0.00014	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X2H7R	(!B * !Y)	0.00019	0.00019	0.00019
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	-0.00014	-0.00014	-0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X2H7R	(!A * !Y)	-0.00018	-0.00018	-0.00018
	(!A * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !Y)	0.00002	0.00002	0.00002
	(!A * !Y)	0.00008	0.00008	0.00008

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

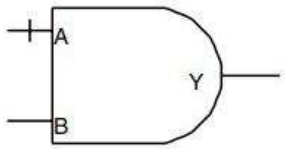
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X2H7R	(!A * !Y)	0.00018	0.00018	0.00018
	(!A * !Y)	0.00000	0.00000	0.00000
	(!A * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !Y)	-0.00008	-0.00008	-0.00008

AND2X3H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X3H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X3H7R	0.00072	0.00068	0.12042

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X3H7R	0.00000	0.27589	0.47263

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X3H7R	A->Y (RR)	0.04828	0.19788	0.55939
	B->Y (RR)	0.04551	0.19556	0.55539

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X3H7R	A->Y (FF)	0.03949	0.16319	0.45634
	B->Y (FF)	0.03684	0.15906	0.44978

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X3H7R	A	0.00083	0.00093	0.00130
	A	-0.00002	-0.00002	-0.00001
	A	-0.00001	-0.00001	0.00001
	A	0.00147	0.00158	0.00194
	B	0.00084	0.00098	0.00154
	B	-0.00002	-0.00002	-0.00002
	B	0.00003	0.00003	0.00003
	B	0.00136	0.00151	0.00206

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X3H7R	A	0.00159	0.00174	0.00228
	A	0.00002	0.00002	0.00002
	A	0.00001	0.00001	0.00001
	A	0.00095	0.00109	0.00164
	B	0.00146	0.00162	0.00219
	B	0.00002	0.00002	0.00003
	B	-0.00003	-0.00003	-0.00003
	B	0.00094	0.00109	0.00166

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X3H7R	(!B * !Y)	-0.00019	-0.00019	-0.00019
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	0.00014	0.00014	0.00014

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X3H7R	(!B * !Y)	0.00019	0.00019	0.00019
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	-0.00014	-0.00013	-0.00012

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X3H7R	(!A * !Y)	-0.00018	-0.00018	-0.00018
	(!A * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !Y)	0.00002	0.00002	0.00002
	(!A * !Y)	0.00008	0.00008	0.00008

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

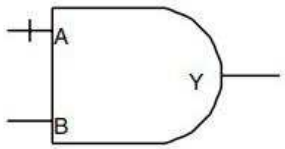
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X3H7R	(!A * !Y)	0.00018	0.00018	0.00018
	(!A * !Y)	0.00000	0.00000	0.00000
	(!A * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !Y)	-0.00008	-0.00008	-0.00008

AND2X4H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X4H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X4H7R	0.00117	0.00119	0.16310

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X4H7R	0.00000	0.41752	0.66844

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X4H7R	A->Y (RR)	0.03981	0.18424	0.53180
	B->Y (RR)	0.03672	0.17968	0.52278

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X4H7R	A->Y (FF)	0.04010	0.16686	0.46868
	B->Y (FF)	0.03635	0.16026	0.45741

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X4H7R	A	0.00117	0.00134	0.00183
	A	-0.00001	-0.00001	0.00000
	A	-0.00004	-0.00004	0.00000
	A	0.00238	0.00255	0.00304
	B	0.00117	0.00139	0.00220
	B	-0.00002	-0.00001	0.00000
	B	0.00002	0.00003	0.00004
	B	0.00207	0.00230	0.00310

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X4H7R	A	0.00251	0.00275	0.00358
	A	0.00000	0.00001	0.00001
	A	0.00004	0.00004	0.00004
	A	0.00133	0.00155	0.00239
	B	0.00220	0.00245	0.00333
	B	0.00000	0.00001	0.00002
	B	-0.00003	-0.00003	-0.00002
	B	0.00129	0.00153	0.00243

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X4H7R	(!B * !Y)	-0.00023	-0.00023	-0.00023
	(!B * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	0.00032	0.00033	0.00033

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X4H7R	(!B * !Y)	0.00024	0.00024	0.00026
	(!B * !Y)	0.00000	0.00001	0.00001
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	-0.00032	-0.00030	-0.00028

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X4H7R	(!A * !Y)	-0.00034	-0.00034	-0.00033
	(!A * !Y)	-0.00001	-0.00000	-0.00000
	(!A * !Y)	0.00003	0.00003	0.00005
	(!A * !Y)	0.00010	0.00011	0.00011

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

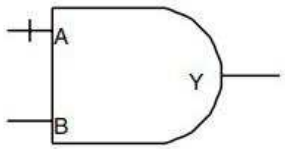
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X4H7R	(!A * !Y)	0.00033	0.00034	0.00034
	(!A * !Y)	0.00000	0.00001	0.00001
	(!A * !Y)	-0.00003	-0.00003	-0.00003
	(!A * !Y)	-0.00011	-0.00011	-0.00010

AND2X6H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X6H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X6H7R	0.00149	0.00131	0.24058

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X6H7R	0.00000	0.55177	0.94525

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X6H7R	A->Y (RR)	0.04473	0.19441	0.55582
	B->Y (RR)	0.04238	0.19233	0.55122

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X6H7R	A->Y (FF)	0.03664	0.16028	0.45283
	B->Y (FF)	0.03432	0.15633	0.44690

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X6H7R	A	0.00160	0.00183	0.00263
	A	-0.00004	-0.00003	-0.00002
	A	-0.00001	-0.00001	-0.00001
	A	0.00290	0.00313	0.00393
	B	0.00162	0.00190	0.00311
	B	-0.00004	-0.00003	0.00000
	B	0.00005	0.00006	0.00007
	B	0.00258	0.00286	0.00407

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X6H7R	A	0.00303	0.00333	0.00450
	A	0.00003	0.00003	0.00004
	A	0.00001	0.00001	0.00001
	A	0.00175	0.00204	0.00321
	B	0.00280	0.00312	0.00434
	B	0.00000	0.00003	0.00006
	B	-0.00006	-0.00006	-0.00005
	B	0.00185	0.00215	0.00338

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X6H7R	(!B * !Y)	-0.00034	-0.00034	-0.00034
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00001	0.00001	0.00003
	(!B * !Y)	0.00034	0.00035	0.00035

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X6H7R	(!B * !Y)	0.00035	0.00035	0.00036
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00002	-0.00001	-0.00001
	(!B * !Y)	-0.00034	-0.00033	-0.00031

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X6H7R	(!A * !Y)	-0.00037	-0.00036	-0.00036
	(!A * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !Y)	0.00003	0.00004	0.00004
	(!A * !Y)	0.00009	0.00010	0.00011

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

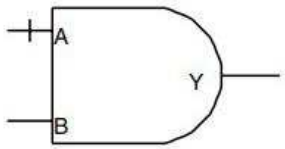
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X6H7R	(!A * !Y)	0.00036	0.00036	0.00037
	(!A * !Y)	0.00001	0.00001	0.00001
	(!A * !Y)	-0.00004	-0.00004	-0.00003
	(!A * !Y)	-0.00009	-0.00009	-0.00009

AND2X8H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND2X8H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
AND2X8H7R	0.00195	0.00196	0.31900

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND2X8H7R	0.00000	0.81161	1.29946

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X8H7R	A->Y (RR)	0.03548	0.17932	0.52658
	B->Y (RR)	0.03279	0.17489	0.51646

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND2X8H7R	A->Y (FF)	0.03463	0.15873	0.45354
	B->Y (FF)	0.03140	0.15316	0.44568

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X8H7R	A	0.00211	0.00244	0.00350
	A	-0.00002	-0.00002	-0.00001
	A	-0.00008	-0.00008	-0.00008
	A	0.00419	0.00452	0.00557
	B	0.00210	0.00255	0.00424
	B	-0.00002	-0.00002	0.00000
	B	0.00005	0.00006	0.00011
	B	0.00359	0.00406	0.00573

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND2X8H7R	A	0.00430	0.00476	0.00641
	A	0.00002	0.00002	0.00002
	A	0.00008	0.00008	0.00008
	A	0.00228	0.00273	0.00439
	B	0.00377	0.00428	0.00610
	B	0.00000	0.00002	0.00003
	B	-0.00006	-0.00006	-0.00005
	B	0.00228	0.00276	0.00460

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X8H7R	(!B * !Y)	-0.00041	-0.00040	-0.00040
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00002	0.00003	0.00003
	(!B * !Y)	0.00057	0.00057	0.00057

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X8H7R	(!B * !Y)	0.00041	0.00043	0.00046
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00003	-0.00003	-0.00002
	(!B * !Y)	-0.00055	-0.00052	-0.00047

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND2X8H7R	(!A * !Y)	-0.00057	-0.00057	-0.00056
	(!A * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !Y)	0.00007	0.00007	0.00007
	(!A * !Y)	0.00015	0.00016	0.00016

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

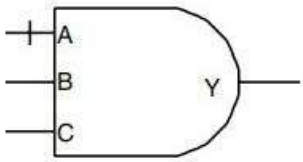
Cell Name	When	Power(pJ)		
		min	avg	max
AND2X8H7R	(!A * !Y)	0.00057	0.00057	0.00058
	(!A * !Y)	0.00001	0.00001	0.00001
	(!A * !Y)	-0.00007	-0.00006	-0.00006
	(!A * !Y)	-0.00016	-0.00016	-0.00015

AND3X0P5H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X0P5H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X0P5H7R	0.00070	0.00064	0.00071	0.04261

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X0P5H7R	0.00000	0.11247	0.24465

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X0P5H7R	A->Y (RR)	0.05818	0.19859	0.54529
	B->Y (RR)	0.05523	0.19944	0.55164
	C->Y (RR)	0.05333	0.19595	0.54393

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X0P5H7R	A->Y (FF)	0.04387	0.16364	0.45149
	B->Y (FF)	0.04084	0.15874	0.44273
	C->Y (FF)	0.03917	0.15489	0.43607

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X0P5H7R	A	0.00036	0.00043	0.00061
	A	0.00003	0.00003	0.00003
	A	-0.00007	-0.00007	-0.00007
	A	0.00126	0.00133	0.00149
	B	0.00038	0.00045	0.00065
	B	0.00003	0.00003	0.00004
	B	-0.00004	-0.00004	-0.00003
	B	0.00110	0.00117	0.00136
	C	0.00037	0.00046	0.00075
	C	0.00003	0.00003	0.00004
	C	0.00000	0.00000	0.00001
	C	0.00101	0.00111	0.00140

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X0P5H7R	A	0.00126	0.00136	0.00164
	A	-0.00003	-0.00003	-0.00003
	A	0.00007	0.00007	0.00007
	A	0.00038	0.00048	0.00077
	B	0.00113	0.00123	0.00152
	B	-0.00003	-0.00003	-0.00003
	B	0.00004	0.00004	0.00004
	B	0.00042	0.00052	0.00081
	C	0.00105	0.00116	0.00148
	C	-0.00003	-0.00003	-0.00003
	C	-0.00000	0.00000	0.00000
	C	0.00040	0.00051	0.00083

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7R	(B * !C * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	0.00017	0.00017	0.00017
	(!B * C * !Y)	-0.00015	-0.00015	-0.00015
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	0.00017	0.00017	0.00017
	(!B * !C * !Y)	-0.00015	-0.00015	-0.00015
	(!B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	0.00017	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7R	(B * !C * !Y)	0.00015	0.00015	0.00015
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	-0.00017	-0.00016	-0.00015
	(!B * C * !Y)	0.00015	0.00015	0.00015
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	-0.00017	-0.00016	-0.00016
	(!B * !C * !Y)	0.00015	0.00015	0.00015
	(!B * !C * !Y)	0.00000	0.00000	0.00000
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	-0.00017	-0.00016	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7R	(A * !C * !Y)	-0.00011	-0.00011	-0.00011
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	0.00015	0.00016	0.00016
	(!A * C * !Y)	-0.00012	-0.00012	-0.00011
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	0.00003	0.00003	0.00003
	(!A * C * !Y)	0.00006	0.00006	0.00007
	(!A * !C * !Y)	-0.00012	-0.00012	-0.00011
	(!A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !Y)	0.00004	0.00004	0.00004
	(!A * !C * !Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7R	(A * !C * !Y)	0.00012	0.00012	0.00013
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	-0.00015	-0.00015	-0.00014
	(!A * C * !Y)	0.00011	0.00012	0.00012
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	-0.00003	-0.00003	-0.00003
	(!A * C * !Y)	-0.00007	-0.00006	-0.00006
	(!A * !C * !Y)	0.00012	0.00012	0.00012
	(!A * !C * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * !Y)	-0.00007	-0.00006	-0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7R	(!B * !Y)	-0.00019	-0.00019	-0.00019
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00002	0.00002	0.00002
	(!B * !Y)	0.00006	0.00006	0.00006
	(!A * B * !Y)	-0.00019	-0.00019	-0.00018
	(!A * B * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !Y)	0.00002	0.00002	0.00002
	(!A * B * !Y)	0.00006	0.00006	0.00007

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

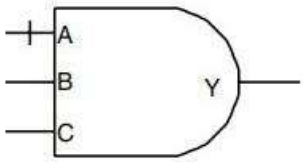
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P5H7R	(!B * !Y)	0.00019	0.00019	0.00019
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !Y)	0.00018	0.00019	0.00019
	(!A * B * !Y)	0.00000	0.00000	0.00000
	(!A * B * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * !Y)	-0.00006	-0.00006	-0.00006

AND3X0P7H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X0P7H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X0P7H7R	0.00072	0.00062	0.00073	0.04820

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X0P7H7R	0.00000	0.12078	0.26233

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X0P7H7R	A->Y (RR)	0.06080	0.20260	0.55232
	B->Y (RR)	0.05744	0.20350	0.55916
	C->Y (RR)	0.05577	0.20015	0.55158

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X0P7H7R	A->Y (FF)	0.04550	0.16671	0.45717
	B->Y (FF)	0.04224	0.16171	0.44863
	C->Y (FF)	0.04068	0.15799	0.44212

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X0P7H7R	A	0.00039	0.00046	0.00064
	A	0.00003	0.00003	0.00003
	A	-0.00007	-0.00007	-0.00007
	A	0.00131	0.00138	0.00153
	B	0.00041	0.00048	0.00067
	B	0.00003	0.00003	0.00003
	B	-0.00004	-0.00003	-0.00003
	B	0.00115	0.00122	0.00141
	C	0.00040	0.00049	0.00077
	C	0.00003	0.00003	0.00003
	C	0.00000	0.00000	0.00001
	C	0.00107	0.00116	0.00145

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X0P7H7R	A	0.00136	0.00146	0.00175
	A	-0.00003	-0.00003	-0.00003
	A	0.00007	0.00007	0.00007
	A	0.00045	0.00055	0.00084
	B	0.00123	0.00133	0.00162
	B	-0.00003	-0.00003	-0.00003
	B	0.00003	0.00003	0.00004
	B	0.00050	0.00060	0.00089
	C	0.00115	0.00126	0.00157
	C	-0.00003	-0.00003	-0.00003
	C	-0.00000	-0.00000	0.00000
	C	0.00048	0.00058	0.00090

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7R	(B * !C * !Y)	-0.00016	-0.00016	-0.00016
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	0.00016	0.00016	0.00017
	(!B * C * !Y)	-0.00016	-0.00016	-0.00016
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	0.00017	0.00017	0.00017
	(!B * !C * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	0.00016	0.00016	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7R	(B * !C * !Y)	0.00016	0.00016	0.00016
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	-0.00016	-0.00016	-0.00014
	(!B * C * !Y)	0.00016	0.00016	0.00016
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	-0.00016	-0.00016	-0.00015
	(!B * !C * !Y)	0.00016	0.00016	0.00016
	(!B * !C * !Y)	0.00000	0.00000	0.00000
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	-0.00016	-0.00016	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7R	(A * !C * !Y)	-0.00011	-0.00012	-0.00011
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	0.00015	0.00015	0.00015
	(!A * C * !Y)	-0.00012	-0.00012	-0.00011
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	0.00003	0.00003	0.00003
	(!A * C * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !Y)	-0.00012	-0.00012	-0.00011
	(!A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !Y)	0.00004	0.00004	0.00004
	(!A * !C * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7R	(A * !C * !Y)	0.00012	0.00012	0.00013
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	-0.00014	-0.00014	-0.00013
	(!A * C * !Y)	0.00012	0.00012	0.00012
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	-0.00003	-0.00003	-0.00003
	(!A * C * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !Y)	0.00012	0.00012	0.00012
	(!A * !C * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7R	(!B * !Y)	-0.00020	-0.00020	-0.00019
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00002	0.00002	0.00002
	(!B * !Y)	0.00006	0.00006	0.00007
	(!A * B * !Y)	-0.00020	-0.00020	-0.00019
	(!A * B * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !Y)	0.00001	0.00002	0.00002
	(!A * B * !Y)	0.00006	0.00006	0.00007

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

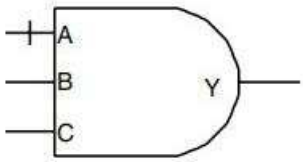
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X0P7H7R	(!B * !Y)	0.00020	0.00020	0.00020
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !Y)	0.00019	0.00020	0.00020
	(!A * B * !Y)	0.00000	0.00000	0.00000
	(!A * B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * B * !Y)	-0.00006	-0.00006	-0.00006

AND3X1H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X1H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X1H7R	0.00069	0.00066	0.00073	0.05755

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X1H7R	0.00000	0.13341	0.28654

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X1H7R	A->Y (RR)	0.05854	0.20144	0.55216
	B->Y (RR)	0.05588	0.20276	0.55922
	C->Y (RR)	0.05416	0.19948	0.55150

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X1H7R	A->Y (FF)	0.04403	0.16767	0.46365
	B->Y (FF)	0.04117	0.16290	0.45507
	C->Y (FF)	0.03962	0.15925	0.44871

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X1H7R	A	0.00043	0.00049	0.00067
	A	0.00002	0.00003	0.00003
	A	-0.00007	-0.00007	-0.00006
	A	0.00132	0.00138	0.00155
	B	0.00044	0.00051	0.00071
	B	0.00002	0.00003	0.00003
	B	-0.00003	-0.00003	-0.00003
	B	0.00116	0.00123	0.00144
	C	0.00043	0.00052	0.00083
	C	0.00002	0.00003	0.00003
	C	0.00000	0.00001	0.00001
	C	0.00108	0.00117	0.00147

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X1H7R	A	0.00135	0.00145	0.00176
	A	-0.00003	-0.00003	-0.00002
	A	0.00006	0.00007	0.00007
	A	0.00048	0.00059	0.00090
	B	0.00123	0.00133	0.00165
	B	-0.00003	-0.00003	-0.00002
	B	0.00003	0.00003	0.00003
	B	0.00052	0.00061	0.00093
	C	0.00115	0.00126	0.00160
	C	-0.00003	-0.00003	-0.00002
	C	-0.00001	-0.00001	0.00000
	C	0.00051	0.00061	0.00095

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7R	(B * !C * !Y)	-0.00014	-0.00014	-0.00014
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	0.00000	0.00001	0.00001
	(B * !C * !Y)	0.00017	0.00017	0.00017
	(!B * C * !Y)	-0.00014	-0.00014	-0.00014
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	0.00017	0.00018	0.00018
	(!B * !C * !Y)	-0.00014	-0.00014	-0.00014
	(!B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	0.00017	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7R	(B * !C * !Y)	0.00014	0.00014	0.00014
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !Y)	-0.00017	-0.00016	-0.00015
	(!B * C * !Y)	0.00014	0.00014	0.00014
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	-0.00017	-0.00017	-0.00016
	(!B * !C * !Y)	0.00014	0.00014	0.00014
	(!B * !C * !Y)	0.00000	0.00000	0.00000
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	-0.00017	-0.00017	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7R	(A * !C * !Y)	-0.00012	-0.00012	-0.00012
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	0.00016	0.00016	0.00016
	(!A * C * !Y)	-0.00012	-0.00012	-0.00012
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	0.00003	0.00003	0.00003
	(!A * C * !Y)	0.00007	0.00007	0.00007
	(!A * !C * !Y)	-0.00012	-0.00012	-0.00012
	(!A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !Y)	0.00004	0.00004	0.00004
	(!A * !C * !Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7R	(A * !C * !Y)	0.00012	0.00012	0.00013
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	-0.00016	-0.00015	-0.00014
	(!A * C * !Y)	0.00012	0.00012	0.00012
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	-0.00003	-0.00003	-0.00003
	(!A * C * !Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * !Y)	0.00012	0.00012	0.00012
	(!A * !C * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * !Y)	-0.00007	-0.00007	-0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7R	(!B * !Y)	-0.00020	-0.00020	-0.00019
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00002	0.00002	0.00002
	(!B * !Y)	0.00006	0.00006	0.00007
	(!A * B * !Y)	-0.00020	-0.00020	-0.00019
	(!A * B * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !Y)	0.00002	0.00002	0.00003
	(!A * B * !Y)	0.00006	0.00006	0.00007

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

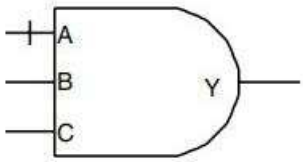
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1H7R	(!B * !Y)	0.00019	0.00020	0.00020
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * !Y)	0.00019	0.00020	0.00020
	(!A * B * !Y)	0.00000	0.00000	0.00000
	(!A * B * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * !Y)	-0.00007	-0.00006	-0.00006

AND3X1P4H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X1P4H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X1P4H7R	0.00070	0.00062	0.00073	0.06568

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X1P4H7R	0.00000	0.14480	0.31054

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X1P4H7R	A->Y (RR)	0.05997	0.20383	0.55622
	B->Y (RR)	0.05659	0.20484	0.56398
	C->Y (RR)	0.05514	0.20198	0.55695

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X1P4H7R	A->Y (FF)	0.04480	0.16934	0.46659
	B->Y (FF)	0.04152	0.16435	0.45841
	C->Y (FF)	0.04019	0.16092	0.45215

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X1P4H7R	A	0.00047	0.00054	0.00071
	A	0.00002	0.00002	0.00002
	A	-0.00006	-0.00006	-0.00006
	A	0.00136	0.00143	0.00161
	B	0.00049	0.00056	0.00078
	B	0.00002	0.00002	0.00002
	B	-0.00003	-0.00003	-0.00003
	B	0.00120	0.00128	0.00149
	C	0.00048	0.00057	0.00090
	C	0.00002	0.00002	0.00002
	C	0.00001	0.00001	0.00002
	C	0.00113	0.00123	0.00155

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X1P4H7R	A	0.00141	0.00152	0.00184
	A	-0.00002	-0.00002	-0.00002
	A	0.00006	0.00006	0.00006
	A	0.00054	0.00064	0.00097
	B	0.00128	0.00139	0.00172
	B	-0.00002	-0.00002	-0.00000
	B	0.00003	0.00003	0.00003
	B	0.00058	0.00068	0.00101
	C	0.00121	0.00132	0.00167
	C	-0.00002	-0.00002	-0.00001
	C	-0.00001	-0.00001	-0.00001
	C	0.00056	0.00066	0.00101

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7R	(B * !C * !Y)	-0.00016	-0.00016	-0.00016
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	0.00000	0.00001	0.00001
	(B * !C * !Y)	0.00016	0.00016	0.00016
	(!B * C * !Y)	-0.00016	-0.00016	-0.00016
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00000	0.00001	0.00001
	(!B * C * !Y)	0.00016	0.00016	0.00017
	(!B * !C * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	0.00016	0.00016	0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7R	(B * !C * !Y)	0.00016	0.00016	0.00016
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !Y)	-0.00016	-0.00015	-0.00014
	(!B * C * !Y)	0.00016	0.00016	0.00016
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00001	-0.00001	-0.00000
	(!B * C * !Y)	-0.00016	-0.00015	-0.00015
	(!B * !C * !Y)	0.00016	0.00016	0.00016
	(!B * !C * !Y)	0.00000	0.00000	0.00000
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	-0.00016	-0.00015	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7R	(A * !C * !Y)	-0.00012	-0.00012	-0.00012
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	0.00015	0.00015	0.00015
	(!A * C * !Y)	-0.00012	-0.00012	-0.00012
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	0.00003	0.00003	0.00003
	(!A * C * !Y)	0.00005	0.00006	0.00006
	(!A * !C * !Y)	-0.00012	-0.00012	-0.00012
	(!A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !Y)	0.00004	0.00004	0.00004
	(!A * !C * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7R	(A * !C * !Y)	0.00012	0.00012	0.00013
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	-0.00014	-0.00014	-0.00013
	(!A * C * !Y)	0.00012	0.00012	0.00012
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	-0.00003	-0.00003	-0.00003
	(!A * C * !Y)	-0.00006	-0.00006	-0.00005
	(!A * !C * !Y)	0.00012	0.00012	0.00012
	(!A * !C * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7R	(!B * !Y)	-0.00020	-0.00020	-0.00019
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00001	0.00002	0.00002
	(!B * !Y)	0.00006	0.00006	0.00007
	(!A * B * !Y)	-0.00020	-0.00020	-0.00019
	(!A * B * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !Y)	0.00002	0.00002	0.00002
	(!A * B * !Y)	0.00006	0.00006	0.00007

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

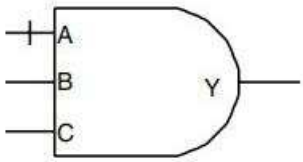
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X1P4H7R	(!B * !Y)	0.00019	0.00020	0.00020
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !Y)	0.00020	0.00020	0.00020
	(!A * B * !Y)	0.00000	0.00000	0.00000
	(!A * B * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * !Y)	-0.00007	-0.00006	-0.00006

AND3X2H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X2H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X2H7R	0.00069	0.00061	0.00073	0.08504

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X2H7R	0.00000	0.17059	0.38546

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X2H7R	A->Y (RR)	0.06194	0.20852	0.56511
	B->Y (RR)	0.05878	0.20996	0.57386
	C->Y (RR)	0.05724	0.20687	0.56605

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X2H7R	A->Y (FF)	0.04804	0.17488	0.47597
	B->Y (FF)	0.04470	0.16994	0.46683
	C->Y (FF)	0.04327	0.16642	0.46069

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X2H7R	A	0.00069	0.00077	0.00099
	A	0.00001	0.00001	0.00002
	A	-0.00006	-0.00006	-0.00006
	A	0.00157	0.00166	0.00188
	B	0.00070	0.00079	0.00107
	B	0.00001	0.00001	0.00002
	B	-0.00003	-0.00002	-0.00001
	B	0.00140	0.00149	0.00178
	C	0.00069	0.00080	0.00122
	C	0.00001	0.00001	0.00001
	C	0.00001	0.00002	0.00002
	C	0.00133	0.00145	0.00186

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X2H7R	A	0.00161	0.00173	0.00213
	A	-0.00001	-0.00001	0.00000
	A	0.00006	0.00006	0.00006
	A	0.00074	0.00086	0.00126
	B	0.00147	0.00160	0.00200
	B	-0.00001	-0.00001	0.00003
	B	0.00002	0.00002	0.00003
	B	0.00078	0.00090	0.00131
	C	0.00140	0.00152	0.00194
	C	-0.00001	-0.00001	-0.00001
	C	-0.00002	-0.00002	-0.00001
	C	0.00074	0.00087	0.00130

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7R	(B * !C * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	0.00000	0.00001	0.00001
	(B * !C * !Y)	0.00017	0.00017	0.00017
	(!B * C * !Y)	-0.00015	-0.00015	-0.00015
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00000	0.00001	0.00001
	(!B * C * !Y)	0.00017	0.00017	0.00017
	(!B * !C * !Y)	-0.00015	-0.00015	-0.00015
	(!B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	0.00017	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7R	(B * !C * !Y)	0.00015	0.00015	0.00015
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !Y)	-0.00017	-0.00016	-0.00015
	(!B * C * !Y)	0.00015	0.00015	0.00015
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00001	-0.00001	-0.00000
	(!B * C * !Y)	-0.00017	-0.00016	-0.00015
	(!B * !C * !Y)	0.00015	0.00015	0.00015
	(!B * !C * !Y)	0.00000	0.00000	0.00000
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	-0.00017	-0.00016	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7R	(A * !C * !Y)	-0.00011	-0.00011	-0.00011
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	0.00000	0.00001	0.00001
	(A * !C * !Y)	0.00016	0.00016	0.00016
	(!A * C * !Y)	-0.00011	-0.00011	-0.00011
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	0.00002	0.00003	0.00003
	(!A * C * !Y)	0.00006	0.00006	0.00007
	(!A * !C * !Y)	-0.00011	-0.00011	-0.00011
	(!A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !Y)	0.00004	0.00004	0.00004
	(!A * !C * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7R	(A * !C * !Y)	0.00011	0.00012	0.00013
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !Y)	-0.00015	-0.00015	-0.00014
	(!A * C * !Y)	0.00011	0.00011	0.00011
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	-0.00003	-0.00003	-0.00002
	(!A * C * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !Y)	0.00011	0.00012	0.00012
	(!A * !C * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7R	(!B * !Y)	-0.00020	-0.00020	-0.00019
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00001	0.00002	0.00002
	(!B * !Y)	0.00007	0.00007	0.00008
	(!A * B * !Y)	-0.00020	-0.00020	-0.00020
	(!A * B * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !Y)	0.00001	0.00002	0.00002
	(!A * B * !Y)	0.00007	0.00007	0.00008

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

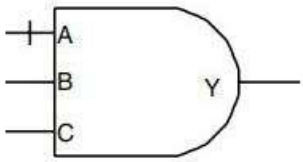
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X2H7R	(!B * !Y)	0.00019	0.00020	0.00020
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !Y)	-0.00007	-0.00007	-0.00007
	(!A * B * !Y)	0.00020	0.00020	0.00020
	(!A * B * !Y)	0.00000	0.00000	0.00000
	(!A * B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * B * !Y)	-0.00007	-0.00007	-0.00007

AND3X3H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X3H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X3H7R	0.00073	0.00064	0.00076	0.12026

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X3H7R	0.00000	0.22251	0.51661

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X3H7R	A->Y (RR)	0.06848	0.21953	0.58410
	B->Y (RR)	0.06515	0.22167	0.59535
	C->Y (RR)	0.06382	0.21921	0.58909

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X3H7R	A->Y (FF)	0.04288	0.16923	0.46666
	B->Y (FF)	0.04024	0.16519	0.45990
	C->Y (FF)	0.03932	0.16255	0.45484

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X3H7R	A	0.00082	0.00093	0.00126
	A	0.00000	0.00001	0.00001
	A	-0.00004	-0.00004	-0.00003
	A	0.00173	0.00182	0.00214
	B	0.00086	0.00095	0.00137
	B	0.00001	0.00001	0.00001
	B	-0.00001	-0.00001	0.00001
	B	0.00155	0.00166	0.00207
	C	0.00083	0.00096	0.00155
	C	0.00000	0.00001	0.00001
	C	0.00003	0.00003	0.00005
	C	0.00149	0.00162	0.00220

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X3H7R	A	0.00180	0.00194	0.00245
	A	-0.00001	-0.00001	-0.00000
	A	0.00004	0.00004	0.00004
	A	0.00094	0.00107	0.00159
	B	0.00166	0.00180	0.00233
	B	-0.00001	-0.00001	0.00002
	B	0.00000	0.00001	0.00001
	B	0.00097	0.00111	0.00164
	C	0.00160	0.00174	0.00228
	C	-0.00001	-0.00001	-0.00000
	C	-0.00003	-0.00003	-0.00003
	C	0.00095	0.00109	0.00163

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7R	(B * !C * !Y)	-0.00017	-0.00017	-0.00017
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	0.00000	0.00001	0.00002
	(B * !C * !Y)	0.00015	0.00016	0.00017
	(!B * C * !Y)	-0.00017	-0.00017	-0.00017
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	0.00017	0.00017	0.00017
	(!B * !C * !Y)	-0.00017	-0.00017	-0.00017
	(!B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	0.00016	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7R	(B * !C * !Y)	0.00017	0.00017	0.00017
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !Y)	-0.00016	-0.00016	-0.00014
	(!B * C * !Y)	0.00017	0.00017	0.00017
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	-0.00017	-0.00016	-0.00015
	(!B * !C * !Y)	0.00017	0.00017	0.00017
	(!B * !C * !Y)	0.00000	0.00000	0.00000
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	-0.00017	-0.00016	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7R	(A * !C * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	0.00014	0.00015	0.00015
	(!A * C * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	0.00002	0.00003	0.00003
	(!A * C * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !Y)	0.00004	0.00004	0.00004
	(!A * !C * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7R	(A * !C * !Y)	0.00013	0.00013	0.00014
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	-0.00015	-0.00014	-0.00013
	(!A * C * !Y)	0.00013	0.00013	0.00013
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	-0.00003	-0.00003	-0.00002
	(!A * C * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !Y)	0.00013	0.00013	0.00013
	(!A * !C * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7R	(!B * !Y)	-0.00021	-0.00021	-0.00021
	(!B * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !Y)	0.00002	0.00002	0.00002
	(!B * !Y)	0.00007	0.00007	0.00007
	(!A * B * !Y)	-0.00021	-0.00021	-0.00021
	(!A * B * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !Y)	0.00001	0.00002	0.00002
	(!A * B * !Y)	0.00007	0.00007	0.00008

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

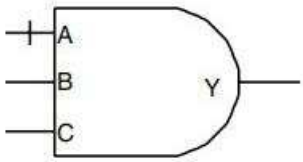
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X3H7R	(!B * !Y)	0.00021	0.00021	0.00021
	(!B * !Y)	0.00000	0.00000	0.00000
	(!B * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !Y)	-0.00007	-0.00007	-0.00007
	(!A * B * !Y)	0.00021	0.00021	0.00021
	(!A * B * !Y)	0.00000	0.00000	0.00000
	(!A * B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * B * !Y)	-0.00008	-0.00007	-0.00007

AND3X4H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X4H7R	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X4H7R	0.00170	0.00150	0.00129	0.17001

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X4H7R	0.00000	0.33423	0.74738

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X4H7R	A->Y (RR)	0.06468	0.21356	0.57439
	B->Y (RR)	0.06102	0.21498	0.58260
	C->Y (RR)	0.05604	0.20919	0.57386

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X4H7R	A->Y (FF)	0.05122	0.18142	0.48850
	B->Y (FF)	0.04740	0.17611	0.47968
	C->Y (FF)	0.04370	0.17068	0.47130

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X4H7R	A	0.00134	0.00149	0.00197
	A	0.00001	0.00002	0.00002
	A	-0.00011	-0.00011	-0.00011
	A	0.00317	0.00332	0.00381
	B	0.00137	0.00153	0.00215
	B	0.00001	0.00002	0.00002
	B	-0.00004	-0.00004	-0.00000
	B	0.00283	0.00299	0.00361
	C	0.00138	0.00159	0.00251
	C	0.00001	0.00002	0.00002
	C	0.00001	0.00003	0.00003
	C	0.00253	0.00274	0.00364

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X4H7R	A	0.00335	0.00356	0.00441
	A	-0.00002	-0.00002	-0.00001
	A	0.00011	0.00011	0.00011
	A	0.00156	0.00177	0.00262
	B	0.00307	0.00329	0.00416
	B	-0.00002	-0.00001	0.00005
	B	0.00000	0.00004	0.00004
	B	0.00163	0.00185	0.00271
	C	0.00280	0.00304	0.00395
	C	-0.00002	-0.00001	0.00001
	C	-0.00003	-0.00003	-0.00001
	C	0.00165	0.00189	0.00282

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7R	(B * !C * !Y)	-0.00037	-0.00037	-0.00037
	(B * !C * !Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !Y)	0.00000	0.00002	0.00002
	(B * !C * !Y)	0.00035	0.00036	0.00038
	(!B * C * !Y)	-0.00037	-0.00037	-0.00037
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00001	0.00002	0.00003
	(!B * C * !Y)	0.00035	0.00036	0.00037
	(!B * !C * !Y)	-0.00037	-0.00037	-0.00037
	(!B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * !Y)	0.00001	0.00002	0.00002
	(!B * !C * !Y)	0.00035	0.00036	0.00036

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7R	(B * !C * !Y)	0.00037	0.00037	0.00037
	(B * !C * !Y)	0.00000	0.00001	0.00001
	(B * !C * !Y)	-0.00002	-0.00002	0.00000
	(B * !C * !Y)	-0.00035	-0.00034	-0.00032
	(!B * C * !Y)	0.00037	0.00037	0.00037
	(!B * C * !Y)	0.00000	0.00001	0.00001
	(!B * C * !Y)	-0.00003	-0.00002	-0.00001
	(!B * C * !Y)	-0.00036	-0.00035	-0.00034
	(!B * !C * !Y)	0.00037	0.00037	0.00037
	(!B * !C * !Y)	0.00000	0.00000	0.00001
	(!B * !C * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !C * !Y)	-0.00036	-0.00035	-0.00033

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7R	(A * !C * !Y)	-0.00027	-0.00027	-0.00027
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	0.00001	0.00002	0.00003
	(A * !C * !Y)	0.00032	0.00033	0.00034
	(!A * C * !Y)	-0.00027	-0.00027	-0.00027
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	0.00004	0.00006	0.00006
	(!A * C * !Y)	0.00014	0.00015	0.00017
	(!A * !C * !Y)	-0.00027	-0.00027	-0.00027
	(!A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !Y)	0.00008	0.00008	0.00008
	(!A * !C * !Y)	0.00015	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7R	(A * !C * !Y)	0.00027	0.00028	0.00029
	(A * !C * !Y)	0.00000	0.00001	0.00000
	(A * !C * !Y)	-0.00002	-0.00001	-0.00001
	(A * !C * !Y)	-0.00033	-0.00031	-0.00029
	(!A * C * !Y)	0.00027	0.00027	0.00027
	(!A * C * !Y)	0.00000	0.00001	0.00000
	(!A * C * !Y)	-0.00006	-0.00006	-0.00004
	(!A * C * !Y)	-0.00015	-0.00015	-0.00014
	(!A * !C * !Y)	0.00027	0.00028	0.00028
	(!A * !C * !Y)	0.00000	0.00001	0.00001
	(!A * !C * !Y)	-0.00008	-0.00008	-0.00008
	(!A * !C * !Y)	-0.00015	-0.00015	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7R	(!B * !Y)	-0.00027	-0.00027	-0.00026
	(!B * !Y)	-0.00000	-0.00001	-0.00000
	(!B * !Y)	0.00004	0.00004	0.00005
	(!B * !Y)	0.00011	0.00013	0.00013
	(!A * B * !Y)	-0.00027	-0.00027	-0.00026
	(!A * B * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !Y)	0.00003	0.00004	0.00005
	(!A * B * !Y)	0.00011	0.00013	0.00014

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

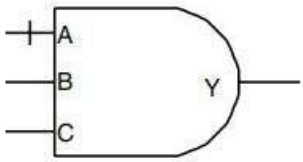
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X4H7R	(!B * !Y)	0.00027	0.00027	0.00027
	(!B * !Y)	0.00000	0.00001	0.00001
	(!B * !Y)	-0.00004	-0.00003	-0.00002
	(!B * !Y)	-0.00013	-0.00013	-0.00011
	(!A * B * !Y)	0.00026	0.00027	0.00027
	(!A * B * !Y)	0.00000	0.00000	0.00000
	(!A * B * !Y)	-0.00004	-0.00003	-0.00003
	(!A * B * !Y)	-0.00013	-0.00013	-0.00011

AND3X6H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X6H7R	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X6H7R	0.00172	0.00156	0.00137	0.24025

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X6H7R	0.00000	0.44502	1.03322

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X6H7R	A->Y (RR)	0.06720	0.21921	0.58414
	B->Y (RR)	0.06409	0.22161	0.59560
	C->Y (RR)	0.05919	0.21624	0.58714

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X6H7R	A->Y (FF)	0.04164	0.16876	0.46724
	B->Y (FF)	0.03923	0.16490	0.46028
	C->Y (FF)	0.03652	0.16065	0.45335

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X6H7R	A	0.00160	0.00177	0.00250
	A	0.00001	0.00001	0.00002
	A	-0.00008	-0.00008	-0.00006
	A	0.00343	0.00360	0.00433
	B	0.00163	0.00181	0.00272
	B	0.00001	0.00001	0.00001
	B	-0.00002	-0.00001	0.00001
	B	0.00309	0.00329	0.00419
	C	0.00165	0.00188	0.00317
	C	0.00001	0.00001	0.00001
	C	0.00001	0.00006	0.00010
	C	0.00277	0.00305	0.00432

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X6H7R	A	0.00363	0.00390	0.00500
	A	-0.00001	-0.00001	-0.00001
	A	0.00008	0.00008	0.00008
	A	0.00184	0.00211	0.00322
	B	0.00336	0.00365	0.00477
	B	-0.00001	-0.00001	0.00002
	B	0.00001	0.00001	0.00002
	B	0.00193	0.00218	0.00331
	C	0.00311	0.00340	0.00458
	C	-0.00001	-0.00001	-0.00001
	C	-0.00006	-0.00006	-0.00001
	C	0.00186	0.00223	0.00342

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7R	(B * !C * !Y)	-0.00039	-0.00038	-0.00038
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	0.00001	0.00002	0.00004
	(B * !C * !Y)	0.00033	0.00035	0.00036
	(!B * C * !Y)	-0.00039	-0.00038	-0.00038
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00000	0.00001	0.00002
	(!B * C * !Y)	0.00036	0.00037	0.00038
	(!B * !C * !Y)	-0.00039	-0.00038	-0.00038
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	0.00002	0.00002	0.00002
	(!B * !C * !Y)	0.00036	0.00036	0.00036

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7R	(B * !C * !Y)	0.00038	0.00039	0.00039
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	-0.00003	-0.00002	-0.00001
	(B * !C * !Y)	-0.00035	-0.00034	-0.00032
	(!B * C * !Y)	0.00038	0.00039	0.00039
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00002	-0.00001	-0.00000
	(!B * C * !Y)	-0.00035	-0.00035	-0.00033
	(!B * !C * !Y)	0.00038	0.00039	0.00039
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * !Y)	-0.00036	-0.00035	-0.00033

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7R	(A * !C * !Y)	-0.00031	-0.00031	-0.00030
	(A * !C * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	0.00033	0.00033	0.00033
	(!A * C * !Y)	-0.00031	-0.00031	-0.00031
	(!A * C * !Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !Y)	0.00005	0.00006	0.00006
	(!A * C * !Y)	0.00014	0.00015	0.00015
	(!A * !C * !Y)	-0.00031	-0.00031	-0.00031
	(!A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !Y)	0.00008	0.00008	0.00008
	(!A * !C * !Y)	0.00014	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7R	(A * !C * !Y)	0.00031	0.00032	0.00033
	(A * !C * !Y)	0.00000	0.00001	0.00001
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	-0.00032	-0.00031	-0.00028
	(!A * C * !Y)	0.00031	0.00031	0.00031
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	-0.00006	-0.00006	-0.00005
	(!A * C * !Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * !Y)	0.00031	0.00032	0.00032
	(!A * !C * !Y)	0.00001	0.00001	0.00001
	(!A * !C * !Y)	-0.00008	-0.00008	-0.00008
	(!A * !C * !Y)	-0.00015	-0.00014	-0.00014

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7R	(!B * !Y)	-0.00031	-0.00031	-0.00031
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00004	0.00004	0.00006
	(!B * !Y)	0.00011	0.00013	0.00013
	(!A * B * !Y)	-0.00031	-0.00031	-0.00031
	(!A * B * !Y)	-0.00001	-0.00001	-0.00000
	(!A * B * !Y)	0.00004	0.00004	0.00006
	(!A * B * !Y)	0.00011	0.00013	0.00013

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

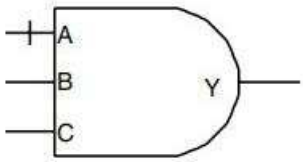
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X6H7R	(!B * !Y)	0.00031	0.00031	0.00032
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00004	-0.00004	-0.00004
	(!B * !Y)	-0.00013	-0.00013	-0.00011
	(!A * B * !Y)	0.00031	0.00032	0.00032
	(!A * B * !Y)	0.00001	0.00001	0.00001
	(!A * B * !Y)	-0.00004	-0.00004	-0.00003
	(!A * B * !Y)	-0.00013	-0.00012	-0.00011

AND3X8H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND3X8H7R	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
AND3X8H7R	0.00202	0.00180	0.00163	0.31783

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND3X8H7R	0.00000	0.62386	1.39608

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X8H7R	A->Y (RR)	0.05029	0.19660	0.55090
	B->Y (RR)	0.04778	0.19797	0.55735
	C->Y (RR)	0.04375	0.19221	0.54578

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND3X8H7R	A->Y (FF)	0.04034	0.16811	0.46913
	B->Y (FF)	0.03751	0.16349	0.46087
	C->Y (FF)	0.03446	0.15846	0.45314

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X8H7R	A	0.00213	0.00240	0.00326
	A	0.00002	0.00003	0.00003
	A	-0.00021	-0.00020	-0.00020
	A	0.00465	0.00490	0.00576
	B	0.00219	0.00246	0.00354
	B	0.00002	0.00003	0.00003
	B	-0.00008	-0.00007	-0.00002
	B	0.00413	0.00440	0.00548
	C	0.00219	0.00255	0.00418
	C	0.00002	0.00003	0.00003
	C	0.00006	0.00006	0.00012
	C	0.00365	0.00402	0.00564

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND3X8H7R	A	0.00472	0.00510	0.00662
	A	-0.00003	-0.00003	-0.00002
	A	0.00020	0.00020	0.00021
	A	0.00230	0.00267	0.00420
	B	0.00431	0.00470	0.00625
	B	-0.00003	-0.00003	-0.00002
	B	0.00007	0.00007	0.00008
	B	0.00240	0.00278	0.00434
	C	0.00389	0.00431	0.00596
	C	-0.00003	-0.00002	0.00001
	C	-0.00007	-0.00006	-0.00006
	C	0.00244	0.00283	0.00450

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7R	(B * !C * !Y)	-0.00045	-0.00045	-0.00045
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	0.00002	0.00003	0.00003
	(B * !C * !Y)	0.00046	0.00046	0.00046
	(!B * C * !Y)	-0.00045	-0.00045	-0.00045
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00002	0.00003	0.00004
	(!B * C * !Y)	0.00046	0.00047	0.00048
	(!B * !C * !Y)	-0.00045	-0.00045	-0.00045
	(!B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * !Y)	0.00003	0.00003	0.00003
	(!B * !C * !Y)	0.00046	0.00046	0.00047

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7R	(B * !C * !Y)	0.00045	0.00046	0.00046
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	-0.00003	-0.00003	-0.00002
	(B * !C * !Y)	-0.00046	-0.00043	-0.00040
	(!B * C * !Y)	0.00045	0.00045	0.00046
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00004	-0.00003	-0.00002
	(!B * C * !Y)	-0.00046	-0.00045	-0.00042
	(!B * !C * !Y)	0.00045	0.00045	0.00046
	(!B * !C * !Y)	0.00001	0.00001	0.00001
	(!B * !C * !Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * !Y)	-0.00046	-0.00045	-0.00043

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7R	(A * !C * !Y)	-0.00036	-0.00036	-0.00036
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	0.00000	0.00002	0.00002
	(A * !C * !Y)	0.00043	0.00044	0.00045
	(!A * C * !Y)	-0.00036	-0.00036	-0.00036
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	0.00010	0.00011	0.00012
	(!A * C * !Y)	0.00010	0.00012	0.00012
	(!A * !C * !Y)	-0.00036	-0.00036	-0.00036
	(!A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !Y)	0.00013	0.00014	0.00014
	(!A * !C * !Y)	0.00012	0.00012	0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7R	(A * !C * !Y)	0.00036	0.00038	0.00041
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	-0.00002	-0.00002	-0.00000
	(A * !C * !Y)	-0.00041	-0.00040	-0.00037
	(!A * C * !Y)	0.00036	0.00036	0.00037
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	-0.00011	-0.00010	-0.00010
	(!A * C * !Y)	-0.00012	-0.00012	-0.00010
	(!A * !C * !Y)	0.00037	0.00037	0.00037
	(!A * !C * !Y)	0.00001	0.00001	0.00001
	(!A * !C * !Y)	-0.00014	-0.00014	-0.00013
	(!A * !C * !Y)	-0.00012	-0.00012	-0.00012

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7R	(!B * !Y)	-0.00043	-0.00043	-0.00043
	(!B * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !Y)	0.00005	0.00007	0.00007
	(!B * !Y)	0.00009	0.00010	0.00011
	(!A * B * !Y)	-0.00043	-0.00043	-0.00043
	(!A * B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !Y)	0.00005	0.00006	0.00007
	(!A * B * !Y)	0.00009	0.00010	0.00011

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

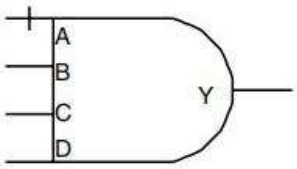
Cell Name	When	Power(pJ)		
		min	avg	max
AND3X8H7R	(!B * !Y)	0.00043	0.00043	0.00043
	(!B * !Y)	0.00001	0.00001	0.00001
	(!B * !Y)	-0.00006	-0.00006	-0.00005
	(!B * !Y)	-0.00010	-0.00010	-0.00009
	(!A * B * !Y)	0.00043	0.00043	0.00044
	(!A * B * !Y)	0.00001	0.00001	0.00001
	(!A * B * !Y)	-0.00006	-0.00006	-0.00005
	(!A * B * !Y)	-0.00010	-0.00009	-0.00009

AND4X0P5H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND4X0P5H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X0P5H7R	0.00071	0.00064	0.00062	0.00074	0.04244

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X0P5H7R	0.00000	0.08915	0.27948

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X0P5H7R	A->Y (RR)	0.08074	0.22340	0.57398
	B->Y (RR)	0.07799	0.22459	0.58236
	C->Y (RR)	0.07366	0.22389	0.58732
	D->Y (RR)	0.07128	0.21938	0.57871

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X0P5H7R	A->Y (FF)	0.05015	0.17362	0.46888
	B->Y (FF)	0.04778	0.16962	0.46131
	C->Y (FF)	0.04498	0.16501	0.45279
	D->Y (FF)	0.04358	0.16163	0.44700

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X0P5H7R	A	0.00037	0.00042	0.00056
	A	0.00005	0.00005	0.00005
	A	-0.00011	-0.00011	-0.00010
	A	0.00152	0.00157	0.00168
	B	0.00038	0.00043	0.00057
	B	0.00005	0.00005	0.00005
	B	-0.00007	-0.00007	-0.00007
	B	0.00134	0.00139	0.00153
	C	0.00039	0.00044	0.00062
	C	0.00005	0.00005	0.00005
	C	-0.00004	-0.00004	-0.00004
	C	0.00121	0.00127	0.00144
	D	0.00037	0.00045	0.00071
	D	0.00005	0.00005	0.00005
	D	-0.00000	0.00000	0.00000
	D	0.00114	0.00122	0.00148

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X0P5H7R	A	0.00154	0.00162	0.00188
	A	-0.00005	-0.00005	-0.00004
	A	0.00010	0.00011	0.00011
	A	0.00042	0.00051	0.00077
	B	0.00141	0.00151	0.00177
	B	-0.00005	-0.00005	-0.00003
	B	0.00007	0.00007	0.00007
	B	0.00049	0.00057	0.00083
	C	0.00130	0.00139	0.00166
	C	-0.00005	-0.00005	-0.00003
	C	0.00004	0.00004	0.00004
	C	0.00049	0.00057	0.00084
	D	0.00123	0.00133	0.00161
	D	-0.00005	-0.00005	-0.00005
	D	-0.00000	-0.00000	0.00000
	D	0.00047	0.00056	0.00084

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7R	(B * C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(B * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * !Y)	0.00001	0.00001	0.00001
	(B * C * !D * !Y)	0.00019	0.00019	0.00019
	(B * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * !Y)	0.00001	0.00001	0.00001
	(B * !C * D * !Y)	0.00019	0.00019	0.00020
	(B * !C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * !Y)	0.00001	0.00001	0.00001
	(B * !C * !D * !Y)	0.00019	0.00019	0.00019
	(!B * C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * !Y)	0.00000	0.00001	0.00001
	(!B * C * D * !Y)	0.00020	0.00020	0.00020
	(!B * !D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	0.00019	0.00019	0.00020
	(!B * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	0.00019	0.00019	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7R	(B * C * !D * !Y)	0.00015	0.00015	0.00015
	(B * C * !D * !Y)	0.00000	0.00000	0.00000
	(B * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * !Y)	-0.00019	-0.00018	-0.00017
	(B * !C * D * !Y)	0.00015	0.00015	0.00015
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * !Y)	-0.00019	-0.00019	-0.00017
	(B * !C * !D * !Y)	0.00015	0.00015	0.00015
	(B * !C * !D * !Y)	0.00000	0.00000	0.00000
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * !Y)	-0.00019	-0.00019	-0.00018
	(!B * C * D * !Y)	0.00015	0.00015	0.00015
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	-0.00001	-0.00001	-0.00000
	(!B * C * D * !Y)	-0.00019	-0.00019	-0.00018
	(!B * !D * !Y)	0.00015	0.00015	0.00015
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	-0.00019	-0.00019	-0.00018
	(!B * !C * D * !Y)	0.00015	0.00015	0.00015
	(!B * !C * D * !Y)	0.00000	0.00000	0.00000
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	-0.00019	-0.00019	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7R	(A * C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * !Y)	0.00001	0.00001	0.00001
	(A * C * !D * !Y)	0.00014	0.00015	0.00015
	(A * !C * D * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * !Y)	0.00001	0.00001	0.00001
	(A * !C * D * !Y)	0.00015	0.00015	0.00015
	(A * !C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	0.00015	0.00015	0.00015
	(!A * C * D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * !Y)	0.00002	0.00003	0.00003
	(!A * C * D * !Y)	0.00006	0.00006	0.00006
	(!A * C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * !Y)	0.00004	0.00004	0.00004
	(!A * C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * !Y)	0.00004	0.00004	0.00004
	(!A * !C * D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * !Y)	-0.00013	-0.00013	-0.00011
	(!A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * !Y)	0.00004	0.00004	0.00004
	(!A * !C * !D * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7R	(A * C * !D * !Y)	0.00013	0.00013	0.00013
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * !Y)	-0.00015	-0.00014	-0.00012
	(A * !C * D * !Y)	0.00013	0.00013	0.00013
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * !Y)	-0.00015	-0.00014	-0.00013
	(A * !C * !D * !Y)	0.00013	0.00013	0.00013
	(A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	-0.00015	-0.00014	-0.00013
	(!A * C * D * !Y)	0.00013	0.00013	0.00013
	(!A * C * D * !Y)	0.00000	0.00000	0.00000
	(!A * C * D * !Y)	-0.00003	-0.00003	-0.00002
	(!A * C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * !Y)	0.00013	0.00013	0.00013
	(!A * C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * C * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00013	0.00013	0.00013
	(!A * !C * D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00013	0.00013	0.00013
	(!A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * !D * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7R	(A * B * !D * !Y)	-0.00011	-0.00011	-0.00011
	(A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * !Y)	0.00001	0.00001	0.00001
	(A * B * !D * !Y)	0.00015	0.00016	0.00016
	(!B * D * !Y)	-0.00011	-0.00011	-0.00011
	(!B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * D * !Y)	0.00003	0.00003	0.00003
	(!B * D * !Y)	0.00006	0.00006	0.00007
	(!B * !D * !Y)	-0.00011	-0.00011	-0.00011
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00004	0.00004	0.00004
	(!B * !D * !Y)	0.00006	0.00006	0.00007
	(!A * B * D * !Y)	-0.00011	-0.00011	-0.00011
	(!A * B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * !Y)	0.00002	0.00003	0.00003
	(!A * B * D * !Y)	0.00006	0.00006	0.00007
	(!A * B * !D * !Y)	-0.00011	-0.00011	-0.00011
	(!A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * !Y)	0.00004	0.00004	0.00004
	(!A * B * !D * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7R	(A * B * !D * !Y)	0.00011	0.00012	0.00013
	(A * B * !D * !Y)	0.00000	0.00000	0.00000
	(A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * !Y)	-0.00015	-0.00015	-0.00013
	(!B * D * !Y)	0.00011	0.00011	0.00011
	(!B * D * !Y)	0.00000	0.00000	0.00000
	(!B * D * !Y)	-0.00003	-0.00003	-0.00003
	(!B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!B * !D * !Y)	0.00011	0.00012	0.00012
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * D * !Y)	0.00011	0.00011	0.00011
	(!A * B * D * !Y)	0.00000	0.00000	0.00000
	(!A * B * D * !Y)	-0.00003	-0.00003	-0.00002
	(!A * B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * !D * !Y)	0.00012	0.00012	0.00012
	(!A * B * !D * !Y)	0.00000	0.00000	0.00000
	(!A * B * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * B * !D * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7R	(!C * !Y)	-0.00020	-0.00020	-0.00019
	(!C * !Y)	-0.00000	-0.00000	-0.00000
	(!C * !Y)	0.00002	0.00002	0.00003
	(!C * !Y)	0.00007	0.00007	0.00007
	(!B * C * !Y)	-0.00020	-0.00019	-0.00019
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00002	0.00002	0.00003
	(!B * C * !Y)	0.00007	0.00007	0.00007
	(!A * B * C * !Y)	-0.00020	-0.00020	-0.00019
	(!A * B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * !Y)	0.00002	0.00002	0.00003
	(!A * B * C * !Y)	0.00007	0.00007	0.00007

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

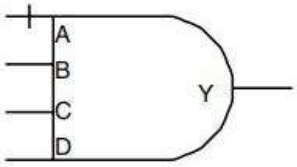
Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P5H7R	(!C * !Y)	0.00020	0.00020	0.00020
	(!C * !Y)	0.00000	0.00000	0.00000
	(!C * !Y)	-0.00002	-0.00002	-0.00002
	(!C * !Y)	-0.00007	-0.00007	-0.00007
	(!B * C * !Y)	0.00019	0.00020	0.00020
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	-0.00007	-0.00007	-0.00007
	(!A * B * C * !Y)	0.00019	0.00020	0.00020
	(!A * B * C * !Y)	0.00000	0.00000	0.00000
	(!A * B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * !Y)	-0.00007	-0.00007	-0.00007

AND4X0P7H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND4X0P7H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X0P7H7R	0.00072	0.00065	0.00062	0.00074	0.04814

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X0P7H7R	0.00000	0.09679	0.29716

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X0P7H7R	A->Y (RR)	0.08063	0.22416	0.57510
	B->Y (RR)	0.07791	0.22549	0.58511
	C->Y (RR)	0.07328	0.22463	0.58986
	D->Y (RR)	0.07095	0.22010	0.58044

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X0P7H7R	A->Y (FF)	0.04980	0.17383	0.47022
	B->Y (FF)	0.04738	0.16984	0.46203
	C->Y (FF)	0.04443	0.16516	0.45409
	D->Y (FF)	0.04304	0.16181	0.44801

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X0P7H7R	A	0.00039	0.00044	0.00056
	A	0.00005	0.00005	0.00005
	A	-0.00010	-0.00010	-0.00010
	A	0.00155	0.00160	0.00172
	B	0.00040	0.00045	0.00060
	B	0.00005	0.00005	0.00005
	B	-0.00007	-0.00007	-0.00007
	B	0.00137	0.00143	0.00157
	C	0.00041	0.00047	0.00065
	C	0.00005	0.00005	0.00005
	C	-0.00004	-0.00003	-0.00003
	C	0.00124	0.00130	0.00148
	D	0.00040	0.00047	0.00075
	D	0.00005	0.00005	0.00005
	D	0.00000	0.00000	0.00001
	D	0.00117	0.00125	0.00152

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X0P7H7R	A	0.00157	0.00165	0.00192
	A	-0.00005	-0.00005	-0.00004
	A	0.00010	0.00010	0.00010
	A	0.00044	0.00053	0.00080
	B	0.00146	0.00154	0.00181
	B	-0.00005	-0.00005	-0.00005
	B	0.00007	0.00007	0.00007
	B	0.00050	0.00059	0.00086
	C	0.00133	0.00142	0.00170
	C	-0.00005	-0.00005	-0.00003
	C	0.00003	0.00003	0.00004
	C	0.00051	0.00059	0.00087
	D	0.00126	0.00135	0.00165
	D	-0.00005	-0.00005	-0.00005
	D	-0.00000	-0.00000	0.00000
	D	0.00049	0.00058	0.00087

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7R	(B * C * !D * !Y)	-0.00016	-0.00015	-0.00015
	(B * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * !Y)	0.00001	0.00001	0.00001
	(B * C * !D * !Y)	0.00019	0.00019	0.00019
	(B * !C * D * !Y)	-0.00016	-0.00015	-0.00015
	(B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * !Y)	0.00001	0.00001	0.00001
	(B * !C * D * !Y)	0.00019	0.00019	0.00020
	(B * !C * !D * !Y)	-0.00016	-0.00015	-0.00015
	(B * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * !Y)	0.00001	0.00001	0.00001
	(B * !C * !D * !Y)	0.00019	0.00019	0.00019
	(!B * C * D * !Y)	-0.00016	-0.00015	-0.00015
	(!B * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * !Y)	0.00000	0.00001	0.00001
	(!B * C * D * !Y)	0.00020	0.00020	0.00020
	(!B * !D * !Y)	-0.00016	-0.00015	-0.00015
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	0.00019	0.00020	0.00020
	(!B * !C * D * !Y)	-0.00016	-0.00015	-0.00015
	(!B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	0.00019	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7R	(B * C * !D * !Y)	0.00016	0.00016	0.00016
	(B * C * !D * !Y)	0.00000	0.00000	0.00000
	(B * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * !Y)	-0.00019	-0.00019	-0.00018
	(B * !C * D * !Y)	0.00015	0.00015	0.00016
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * !Y)	-0.00019	-0.00019	-0.00018
	(B * !C * !D * !Y)	0.00015	0.00015	0.00016
	(B * !C * !D * !Y)	0.00000	0.00000	0.00000
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * !Y)	-0.00019	-0.00019	-0.00018
	(!B * C * D * !Y)	0.00015	0.00015	0.00016
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	-0.00001	-0.00001	-0.00000
	(!B * C * D * !Y)	-0.00019	-0.00019	-0.00018
	(!B * !D * !Y)	0.00015	0.00015	0.00016
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	-0.00020	-0.00019	-0.00019
	(!B * !C * D * !Y)	0.00015	0.00015	0.00016
	(!B * !C * D * !Y)	0.00000	0.00000	0.00000
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	-0.00020	-0.00019	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7R	(A * C * !D * !Y)	-0.00014	-0.00014	-0.00013
	(A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * !Y)	0.00001	0.00001	0.00001
	(A * C * !D * !Y)	0.00015	0.00015	0.00015
	(A * !C * D * !Y)	-0.00014	-0.00014	-0.00013
	(A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * !Y)	0.00001	0.00001	0.00001
	(A * !C * D * !Y)	0.00015	0.00015	0.00015
	(A * !C * !D * !Y)	-0.00014	-0.00014	-0.00013
	(A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	0.00015	0.00015	0.00015
	(!A * C * D * !Y)	-0.00014	-0.00014	-0.00013
	(!A * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * !Y)	0.00002	0.00003	0.00003
	(!A * C * D * !Y)	0.00006	0.00006	0.00007
	(!A * C * !D * !Y)	-0.00014	-0.00014	-0.00013
	(!A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * !Y)	0.00004	0.00004	0.00004
	(!A * C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * D * !Y)	-0.00014	-0.00014	-0.00013
	(!A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * !Y)	0.00004	0.00004	0.00004
	(!A * !C * D * !Y)	0.00006	0.00006	0.00007
	(!A * !C * !D * !Y)	-0.00014	-0.00014	-0.00013
	(!A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * !Y)	0.00004	0.00004	0.00004
	(!A * !C * !D * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7R	(A * C * !D * !Y)	0.00014	0.00014	0.00014
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * !Y)	-0.00015	-0.00014	-0.00012
	(A * !C * D * !Y)	0.00013	0.00014	0.00014
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * !Y)	-0.00015	-0.00014	-0.00013
	(A * !C * !D * !Y)	0.00013	0.00014	0.00014
	(A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	-0.00015	-0.00014	-0.00014
	(!A * C * D * !Y)	0.00013	0.00014	0.00014
	(!A * C * D * !Y)	0.00000	0.00000	0.00000
	(!A * C * D * !Y)	-0.00003	-0.00003	-0.00002
	(!A * C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * !Y)	0.00013	0.00014	0.00014
	(!A * C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * C * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00013	0.00014	0.00014
	(!A * !C * D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00013	0.00014	0.00014
	(!A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * !D * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7R	(A * B * !D * !Y)	-0.00011	-0.00011	-0.00011
	(A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * !Y)	0.00001	0.00001	0.00001
	(A * B * !D * !Y)	0.00015	0.00016	0.00016
	(!B * D * !Y)	-0.00011	-0.00011	-0.00011
	(!B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * D * !Y)	0.00003	0.00003	0.00003
	(!B * D * !Y)	0.00007	0.00007	0.00007
	(!B * !D * !Y)	-0.00011	-0.00011	-0.00011
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00004	0.00004	0.00004
	(!B * !D * !Y)	0.00007	0.00006	0.00007
	(!A * B * D * !Y)	-0.00011	-0.00011	-0.00011
	(!A * B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * !Y)	0.00002	0.00003	0.00003
	(!A * B * D * !Y)	0.00006	0.00007	0.00007
	(!A * B * !D * !Y)	-0.00011	-0.00011	-0.00011
	(!A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * !Y)	0.00004	0.00004	0.00004
	(!A * B * !D * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7R	(A * B * !D * !Y)	0.00011	0.00012	0.00013
	(A * B * !D * !Y)	0.00000	0.00000	0.00000
	(A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * !Y)	-0.00015	-0.00015	-0.00013
	(!B * D * !Y)	0.00011	0.00011	0.00011
	(!B * D * !Y)	0.00000	0.00000	0.00000
	(!B * D * !Y)	-0.00003	-0.00003	-0.00003
	(!B * D * !Y)	-0.00007	-0.00006	-0.00007
	(!B * !D * !Y)	0.00012	0.00012	0.00012
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * D * !Y)	0.00011	0.00011	0.00011
	(!A * B * D * !Y)	0.00000	0.00000	0.00000
	(!A * B * D * !Y)	-0.00003	-0.00003	-0.00002
	(!A * B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * !D * !Y)	0.00012	0.00012	0.00012
	(!A * B * !D * !Y)	0.00000	0.00000	0.00000
	(!A * B * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * B * !D * !Y)	-0.00007	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7R	(!C * !Y)	-0.00020	-0.00020	-0.00019
	(!C * !Y)	-0.00000	-0.00000	-0.00000
	(!C * !Y)	0.00002	0.00002	0.00003
	(!C * !Y)	0.00007	0.00007	0.00008
	(!B * C * !Y)	-0.00020	-0.00020	-0.00019
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00002	0.00002	0.00003
	(!B * C * !Y)	0.00007	0.00007	0.00008
	(!A * B * C * !Y)	-0.00020	-0.00020	-0.00019
	(!A * B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * !Y)	0.00002	0.00002	0.00003
	(!A * B * C * !Y)	0.00007	0.00007	0.00008

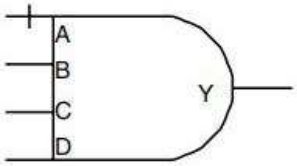
Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X0P7H7R	(!C * !Y)	0.00020	0.00020	0.00020
	(!C * !Y)	0.00000	0.00000	0.00000
	(!C * !Y)	-0.00002	-0.00002	-0.00002
	(!C * !Y)	-0.00007	-0.00007	-0.00007
	(!B * C * !Y)	0.00019	0.00020	0.00020
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	-0.00007	-0.00007	-0.00007
	(!A * B * C * !Y)	0.00020	0.00020	0.00020
	(!A * B * C * !Y)	0.00000	0.00000	0.00000
	(!A * B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * !Y)	-0.00007	-0.00007	-0.00007

AND4X1H7R

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND4X1H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X1H7R	0.00073	0.00064	0.00062	0.00074	0.05745

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X1H7R	0.00000	0.10860	0.32137

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X1H7R	A->Y (RR)	0.07960	0.22445	0.57771
	B->Y (RR)	0.07675	0.22567	0.58668
	C->Y (RR)	0.07232	0.22506	0.59223
	D->Y (RR)	0.07000	0.22058	0.58263

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X1H7R	A->Y (FF)	0.04903	0.17565	0.47774
	B->Y (FF)	0.04656	0.17161	0.46999
	C->Y (FF)	0.04375	0.16702	0.46164
	D->Y (FF)	0.04237	0.16370	0.45543

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X1H7R	A	0.00043	0.00048	0.00062
	A	0.00004	0.00005	0.00005
	A	-0.00010	-0.00010	-0.00010
	A	0.00157	0.00162	0.00175
	B	0.00044	0.00049	0.00065
	B	0.00004	0.00005	0.00005
	B	-0.00007	-0.00007	-0.00006
	B	0.00138	0.00144	0.00160
	C	0.00045	0.00050	0.00070
	C	0.00004	0.00005	0.00005
	C	-0.00003	-0.00003	-0.00003
	C	0.00125	0.00132	0.00151
	D	0.00043	0.00051	0.00081
	D	0.00004	0.00004	0.00005
	D	0.00000	0.00001	0.00002
	D	0.00118	0.00127	0.00156

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X1H7R	A	0.00159	0.00168	0.00197
	A	-0.00004	-0.00004	-0.00004
	A	0.00010	0.00010	0.00010
	A	0.00049	0.00057	0.00086
	B	0.00147	0.00156	0.00185
	B	-0.00004	-0.00004	-0.00003
	B	0.00007	0.00007	0.00007
	B	0.00055	0.00064	0.00092
	C	0.00135	0.00144	0.00173
	C	-0.00004	-0.00004	-0.00004
	C	0.00003	0.00003	0.00003
	C	0.00055	0.00064	0.00093
	D	0.00128	0.00138	0.00169
	D	-0.00005	-0.00004	-0.00004
	D	-0.00001	-0.00001	0.00000
	D	0.00053	0.00062	0.00093

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7R	(B * C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(B * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * !Y)	0.00001	0.00001	0.00002
	(B * C * !D * !Y)	0.00019	0.00020	0.00020
	(B * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * !Y)	0.00001	0.00001	0.00002
	(B * !C * D * !Y)	0.00020	0.00020	0.00020
	(B * !C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * !Y)	0.00001	0.00001	0.00001
	(B * !C * !D * !Y)	0.00020	0.00020	0.00020
	(!B * C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * !Y)	0.00001	0.00001	0.00001
	(!B * C * D * !Y)	0.00020	0.00020	0.00021
	(!B * !D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	0.00020	0.00020	0.00021
	(!B * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7R	(B * C * !D * !Y)	0.00015	0.00015	0.00015
	(B * C * !D * !Y)	0.00000	0.00000	0.00000
	(B * C * !D * !Y)	-0.00002	-0.00001	-0.00001
	(B * C * !D * !Y)	-0.00020	-0.00019	-0.00017
	(B * !C * D * !Y)	0.00015	0.00015	0.00015
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	-0.00002	-0.00001	-0.00001
	(B * !C * D * !Y)	-0.00020	-0.00019	-0.00018
	(B * !C * !D * !Y)	0.00015	0.00015	0.00015
	(B * !C * !D * !Y)	0.00000	0.00000	0.00000
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * !Y)	-0.00020	-0.00019	-0.00018
	(!B * C * D * !Y)	0.00015	0.00015	0.00015
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * !Y)	-0.00020	-0.00020	-0.00019
	(!B * !D * !Y)	0.00015	0.00015	0.00015
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	-0.00020	-0.00020	-0.00019
	(!B * !C * D * !Y)	0.00015	0.00015	0.00015
	(!B * !C * D * !Y)	0.00000	0.00000	0.00000
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	-0.00020	-0.00020	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7R	(A * C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * !Y)	0.00000	0.00001	0.00001
	(A * C * !D * !Y)	0.00015	0.00015	0.00015
	(A * !C * D * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * !Y)	0.00000	0.00001	0.00001
	(A * !C * D * !Y)	0.00015	0.00015	0.00016
	(A * !C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	0.00014	0.00015	0.00015
	(!A * C * D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * !Y)	0.00002	0.00003	0.00003
	(!A * C * D * !Y)	0.00006	0.00006	0.00007
	(!A * C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * !Y)	0.00004	0.00004	0.00004
	(!A * C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * !Y)	0.00003	0.00004	0.00004
	(!A * !C * D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * !Y)	-0.00013	-0.00013	-0.00011
	(!A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * !Y)	0.00004	0.00004	0.00004
	(!A * !C * !D * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7R	(A * C * !D * !Y)	0.00013	0.00013	0.00013
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !D * !Y)	-0.00014	-0.00014	-0.00012
	(A * !C * D * !Y)	0.00013	0.00013	0.00013
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * D * !Y)	-0.00015	-0.00014	-0.00013
	(A * !C * !D * !Y)	0.00013	0.00013	0.00013
	(A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	-0.00015	-0.00014	-0.00013
	(!A * C * D * !Y)	0.00013	0.00013	0.00013
	(!A * C * D * !Y)	0.00000	0.00000	0.00000
	(!A * C * D * !Y)	-0.00003	-0.00003	-0.00002
	(!A * C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * !Y)	0.00013	0.00013	0.00013
	(!A * C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * C * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00013	0.00013	0.00013
	(!A * !C * D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * D * !Y)	-0.00004	-0.00004	-0.00003
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00013	0.00013	0.00013
	(!A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * !D * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7R	(A * B * !D * !Y)	-0.00011	-0.00011	-0.00011
	(A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * !Y)	0.00001	0.00001	0.00001
	(A * B * !D * !Y)	0.00015	0.00016	0.00016
	(!B * D * !Y)	-0.00011	-0.00011	-0.00011
	(!B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * D * !Y)	0.00003	0.00003	0.00003
	(!B * D * !Y)	0.00006	0.00006	0.00007
	(!B * !D * !Y)	-0.00011	-0.00011	-0.00011
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00004	0.00004	0.00004
	(!B * !D * !Y)	0.00006	0.00006	0.00007
	(!A * B * D * !Y)	-0.00011	-0.00011	-0.00011
	(!A * B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * !Y)	0.00003	0.00003	0.00004
	(!A * B * D * !Y)	0.00006	0.00006	0.00007
	(!A * B * !D * !Y)	-0.00011	-0.00011	-0.00011
	(!A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * !Y)	0.00004	0.00004	0.00004
	(!A * B * !D * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7R	(A * B * !D * !Y)	0.00011	0.00012	0.00013
	(A * B * !D * !Y)	0.00000	0.00000	0.00000
	(A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * !Y)	-0.00015	-0.00015	-0.00013
	(!B * D * !Y)	0.00011	0.00011	0.00011
	(!B * D * !Y)	0.00000	0.00000	0.00000
	(!B * D * !Y)	-0.00003	-0.00003	-0.00003
	(!B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!B * !D * !Y)	0.00011	0.00012	0.00012
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * D * !Y)	0.00011	0.00012	0.00012
	(!A * B * D * !Y)	0.00000	0.00000	0.00000
	(!A * B * D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * B * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !D * !Y)	0.00012	0.00012	0.00012
	(!A * B * !D * !Y)	0.00000	0.00000	0.00000
	(!A * B * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * B * !D * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7R	(!C * !Y)	-0.00020	-0.00020	-0.00019
	(!C * !Y)	-0.00000	-0.00000	-0.00000
	(!C * !Y)	0.00002	0.00002	0.00003
	(!C * !Y)	0.00006	0.00007	0.00008
	(!B * C * !Y)	-0.00020	-0.00020	-0.00019
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00002	0.00002	0.00003
	(!B * C * !Y)	0.00007	0.00007	0.00008
	(!A * B * C * !Y)	-0.00020	-0.00020	-0.00019
	(!A * B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * !Y)	0.00002	0.00002	0.00003
	(!A * B * C * !Y)	0.00007	0.00007	0.00007

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

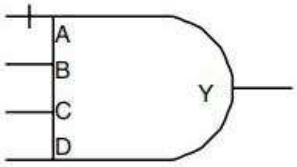
Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1H7R	(!C * !Y)	0.00020	0.00020	0.00020
	(!C * !Y)	0.00000	0.00000	0.00000
	(!C * !Y)	-0.00002	-0.00002	-0.00002
	(!C * !Y)	-0.00007	-0.00007	-0.00006
	(!B * C * !Y)	0.00019	0.00020	0.00020
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	-0.00007	-0.00007	-0.00007
	(!A * B * C * !Y)	0.00019	0.00020	0.00020
	(!A * B * C * !Y)	0.00000	0.00000	0.00000
	(!A * B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * !Y)	-0.00007	-0.00007	-0.00007

AND4X1P4H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND4X1P4H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X1P4H7R	0.00071	0.00065	0.00062	0.00075	0.06556

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X1P4H7R	0.00000	0.12043	0.34622

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X1P4H7R	A->Y (RR)	0.07573	0.22074	0.57292
	B->Y (RR)	0.07350	0.22237	0.58233
	C->Y (RR)	0.06905	0.22161	0.58735
	D->Y (RR)	0.06653	0.21684	0.57855

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X1P4H7R	A->Y (FF)	0.04850	0.17586	0.47928
	B->Y (FF)	0.04624	0.17195	0.47155
	C->Y (FF)	0.04326	0.16720	0.46327
	D->Y (FF)	0.04179	0.16369	0.45648

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X1P4H7R	A	0.00046	0.00051	0.00065
	A	0.00004	0.00004	0.00004
	A	-0.00010	-0.00010	-0.00010
	A	0.00160	0.00165	0.00179
	B	0.00047	0.00052	0.00069
	B	0.00004	0.00004	0.00004
	B	-0.00007	-0.00007	-0.00007
	B	0.00142	0.00147	0.00165
	C	0.00047	0.00053	0.00075
	C	0.00004	0.00004	0.00004
	C	-0.00003	-0.00003	-0.00002
	C	0.00128	0.00135	0.00156
	D	0.00046	0.00054	0.00086
	D	0.00004	0.00004	0.00004
	D	0.00000	0.00001	0.00001
	D	0.00121	0.00129	0.00161

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X1P4H7R	A	0.00160	0.00170	0.00201
	A	-0.00004	-0.00004	-0.00001
	A	0.00010	0.00010	0.00010
	A	0.00051	0.00060	0.00091
	B	0.00150	0.00159	0.00190
	B	-0.00004	-0.00004	-0.00001
	B	0.00007	0.00007	0.00007
	B	0.00057	0.00066	0.00097
	C	0.00137	0.00147	0.00178
	C	-0.00004	-0.00004	-0.00004
	C	0.00003	0.00003	0.00003
	C	0.00056	0.00066	0.00098
	D	0.00130	0.00140	0.00173
	D	-0.00004	-0.00004	-0.00003
	D	-0.00001	-0.00001	0.00000
	D	0.00055	0.00065	0.00098

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7R	(B * C * !D * !Y)	-0.00015	-0.00015	-0.00014
	(B * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * !Y)	0.00001	0.00001	0.00002
	(B * C * !D * !Y)	0.00020	0.00020	0.00020
	(B * !C * D * !Y)	-0.00015	-0.00015	-0.00014
	(B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * !Y)	0.00001	0.00001	0.00002
	(B * !C * D * !Y)	0.00020	0.00020	0.00021
	(B * !C * !D * !Y)	-0.00015	-0.00015	-0.00014
	(B * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * !Y)	0.00001	0.00001	0.00001
	(B * !C * !D * !Y)	0.00020	0.00020	0.00020
	(!B * C * D * !Y)	-0.00015	-0.00015	-0.00014
	(!B * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * !Y)	0.00001	0.00001	0.00001
	(!B * C * D * !Y)	0.00020	0.00021	0.00021
	(!B * !D * !Y)	-0.00015	-0.00015	-0.00014
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	0.00020	0.00020	0.00021
	(!B * !C * D * !Y)	-0.00015	-0.00015	-0.00014
	(!B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	0.00020	0.00020	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7R	(B * C * !D * !Y)	0.00014	0.00015	0.00015
	(B * C * !D * !Y)	0.00000	0.00000	0.00000
	(B * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * !Y)	-0.00020	-0.00019	-0.00018
	(B * !C * D * !Y)	0.00014	0.00015	0.00015
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * !Y)	-0.00020	-0.00020	-0.00019
	(B * !C * !D * !Y)	0.00014	0.00015	0.00015
	(B * !C * !D * !Y)	0.00000	0.00000	0.00000
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * !Y)	-0.00020	-0.00019	-0.00018
	(!B * C * D * !Y)	0.00014	0.00015	0.00015
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * !Y)	-0.00020	-0.00020	-0.00019
	(!B * !D * !Y)	0.00014	0.00015	0.00015
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	-0.00020	-0.00020	-0.00019
	(!B * !C * D * !Y)	0.00014	0.00015	0.00015
	(!B * !C * D * !Y)	0.00000	0.00000	0.00000
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	-0.00020	-0.00020	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7R	(A * C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * !Y)	0.00000	0.00001	0.00001
	(A * C * !D * !Y)	0.00015	0.00015	0.00016
	(A * !C * D * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * !Y)	0.00000	0.00001	0.00001
	(A * !C * D * !Y)	0.00015	0.00016	0.00016
	(A * !C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	0.00015	0.00015	0.00015
	(!A * C * D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * !Y)	0.00002	0.00003	0.00003
	(!A * C * D * !Y)	0.00006	0.00006	0.00007
	(!A * C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * !Y)	0.00004	0.00004	0.00004
	(!A * C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * !Y)	0.00004	0.00004	0.00004
	(!A * !C * D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * !Y)	0.00004	0.00004	0.00004
	(!A * !C * !D * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7R	(A * C * !D * !Y)	0.00013	0.00013	0.00014
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !D * !Y)	-0.00015	-0.00014	-0.00012
	(A * !C * D * !Y)	0.00013	0.00013	0.00013
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * D * !Y)	-0.00015	-0.00015	-0.00013
	(A * !C * !D * !Y)	0.00013	0.00013	0.00013
	(A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	-0.00015	-0.00015	-0.00014
	(!A * C * D * !Y)	0.00013	0.00013	0.00013
	(!A * C * D * !Y)	0.00000	0.00000	0.00000
	(!A * C * D * !Y)	-0.00003	-0.00003	-0.00002
	(!A * C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * !Y)	0.00013	0.00013	0.00014
	(!A * C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * C * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00013	0.00013	0.00013
	(!A * !C * D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00013	0.00013	0.00013
	(!A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * !D * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7R	(A * B * !D * !Y)	-0.00011	-0.00011	-0.00011
	(A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * !Y)	0.00001	0.00001	0.00001
	(A * B * !D * !Y)	0.00016	0.00016	0.00016
	(!B * D * !Y)	-0.00011	-0.00011	-0.00011
	(!B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * D * !Y)	0.00003	0.00003	0.00003
	(!B * D * !Y)	0.00006	0.00007	0.00007
	(!B * !D * !Y)	-0.00011	-0.00011	-0.00011
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00004	0.00004	0.00004
	(!B * !D * !Y)	0.00006	0.00006	0.00007
	(!A * B * D * !Y)	-0.00011	-0.00011	-0.00011
	(!A * B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * !Y)	0.00002	0.00003	0.00003
	(!A * B * D * !Y)	0.00006	0.00007	0.00007
	(!A * B * !D * !Y)	-0.00011	-0.00011	-0.00011
	(!A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * !Y)	0.00004	0.00004	0.00004
	(!A * B * !D * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7R	(A * B * !D * !Y)	0.00011	0.00012	0.00013
	(A * B * !D * !Y)	0.00000	0.00000	0.00000
	(A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * !Y)	-0.00016	-0.00015	-0.00014
	(!B * D * !Y)	0.00011	0.00011	0.00011
	(!B * D * !Y)	0.00000	0.00000	0.00000
	(!B * D * !Y)	-0.00003	-0.00003	-0.00003
	(!B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!B * !D * !Y)	0.00012	0.00012	0.00012
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * D * !Y)	0.00011	0.00012	0.00012
	(!A * B * D * !Y)	0.00000	0.00000	0.00000
	(!A * B * D * !Y)	-0.00003	-0.00003	-0.00002
	(!A * B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * !D * !Y)	0.00012	0.00012	0.00012
	(!A * B * !D * !Y)	0.00000	0.00000	0.00000
	(!A * B * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * B * !D * !Y)	-0.00007	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7R	(!C * !Y)	-0.00020	-0.00020	-0.00019
	(!C * !Y)	-0.00000	-0.00000	-0.00000
	(!C * !Y)	0.00002	0.00002	0.00003
	(!C * !Y)	0.00006	0.00007	0.00007
	(!B * C * !Y)	-0.00020	-0.00020	-0.00019
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00002	0.00002	0.00003
	(!B * C * !Y)	0.00006	0.00007	0.00007
	(!A * B * C * !Y)	-0.00020	-0.00020	-0.00019
	(!A * B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * !Y)	0.00002	0.00002	0.00002
	(!A * B * C * !Y)	0.00007	0.00007	0.00008

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

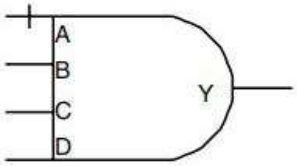
Cell Name	When	Power(pJ)		
		min	avg	max
AND4X1P4H7R	(!C * !Y)	0.00020	0.00020	0.00020
	(!C * !Y)	0.00000	0.00000	0.00000
	(!C * !Y)	-0.00002	-0.00002	-0.00002
	(!C * !Y)	-0.00007	-0.00007	-0.00006
	(!B * C * !Y)	0.00019	0.00020	0.00020
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	-0.00007	-0.00007	-0.00006
	(!A * B * C * !Y)	0.00019	0.00020	0.00020
	(!A * B * C * !Y)	0.00000	0.00000	0.00000
	(!A * B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * !Y)	-0.00007	-0.00007	-0.00007

AND4X2H7R

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

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND4X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X2H7R	0.00070	0.00066	0.00063	0.00077	0.08479

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X2H7R	0.00000	0.14197	0.42135

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X2H7R	A->Y (RR)	0.08228	0.23083	0.58840
	B->Y (RR)	0.07992	0.23275	0.59911
	C->Y (RR)	0.07558	0.23242	0.60543
	D->Y (RR)	0.07302	0.22760	0.59559

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X2H7R	A->Y (FF)	0.05427	0.18501	0.49364
	B->Y (FF)	0.05177	0.18096	0.48627
	C->Y (FF)	0.04869	0.17625	0.47824
	D->Y (FF)	0.04711	0.17274	0.47141

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X2H7R	A	0.00070	0.00076	0.00095
	A	0.00003	0.00003	0.00003
	A	-0.00011	-0.00011	-0.00010
	A	0.00185	0.00191	0.00210
	B	0.00070	0.00077	0.00101
	B	0.00003	0.00003	0.00003
	B	-0.00007	-0.00007	-0.00007
	B	0.00167	0.00174	0.00198
	C	0.00071	0.00078	0.00108
	C	0.00003	0.00003	0.00003
	C	-0.00003	-0.00003	-0.00002
	C	0.00152	0.00160	0.00190
	D	0.00070	0.00080	0.00122
	D	0.00003	0.00003	0.00003
	D	0.00000	0.00001	0.00003
	D	0.00144	0.00155	0.00197

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X2H7R	A	0.00190	0.00202	0.00240
	A	-0.00003	-0.00003	-0.00001
	A	0.00010	0.00011	0.00011
	A	0.00081	0.00091	0.00130
	B	0.00178	0.00190	0.00229
	B	-0.00003	-0.00003	0.00000
	B	0.00007	0.00007	0.00008
	B	0.00085	0.00096	0.00135
	C	0.00166	0.00177	0.00217
	C	-0.00003	-0.00003	-0.00003
	C	0.00002	0.00003	0.00003
	C	0.00086	0.00096	0.00136
	D	0.00158	0.00170	0.00210
	D	-0.00003	-0.00003	-0.00002
	D	-0.00002	-0.00001	-0.00000
	D	0.00083	0.00094	0.00135

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7R	(B * C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(B * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * !Y)	0.00000	0.00001	0.00001
	(B * C * !D * !Y)	0.00019	0.00019	0.00020
	(B * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * !Y)	0.00000	0.00001	0.00001
	(B * !C * D * !Y)	0.00019	0.00019	0.00020
	(B * !C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(B * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * !Y)	0.00001	0.00001	0.00001
	(B * !C * !D * !Y)	0.00019	0.00019	0.00019
	(!B * C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * !Y)	0.00000	0.00001	0.00001
	(!B * C * D * !Y)	0.00020	0.00020	0.00020
	(!B * !D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	0.00019	0.00019	0.00019
	(!B * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	0.00019	0.00019	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7R	(B * C * !D * !Y)	0.00015	0.00015	0.00015
	(B * C * !D * !Y)	0.00000	0.00000	0.00000
	(B * C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(B * C * !D * !Y)	-0.00019	-0.00018	-0.00017
	(B * !C * D * !Y)	0.00015	0.00015	0.00015
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	-0.00001	-0.00001	-0.00000
	(B * !C * D * !Y)	-0.00019	-0.00018	-0.00017
	(B * !C * !D * !Y)	0.00015	0.00015	0.00015
	(B * !C * !D * !Y)	0.00000	0.00000	0.00000
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * !Y)	-0.00019	-0.00018	-0.00017
	(!B * C * D * !Y)	0.00015	0.00015	0.00015
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	-0.00001	-0.00001	0.00000
	(!B * C * D * !Y)	-0.00019	-0.00019	-0.00018
	(!B * !D * !Y)	0.00015	0.00015	0.00015
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	-0.00019	-0.00019	-0.00018
	(!B * !C * D * !Y)	0.00015	0.00015	0.00015
	(!B * !C * D * !Y)	0.00000	0.00000	0.00000
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	-0.00019	-0.00019	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7R	(A * C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * !Y)	0.00001	0.00001	0.00002
	(A * C * !D * !Y)	0.00015	0.00015	0.00016
	(A * !C * D * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * !Y)	0.00001	0.00001	0.00002
	(A * !C * D * !Y)	0.00015	0.00016	0.00016
	(A * !C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	0.00015	0.00015	0.00016
	(!A * C * D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * !Y)	0.00002	0.00003	0.00003
	(!A * C * D * !Y)	0.00006	0.00006	0.00007
	(!A * C * !D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * !Y)	0.00004	0.00004	0.00004
	(!A * C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * !Y)	0.00004	0.00004	0.00004
	(!A * !C * D * !Y)	0.00006	0.00006	0.00007
	(!A * !C * !D * !Y)	-0.00013	-0.00012	-0.00005
	(!A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * !Y)	0.00004	0.00004	0.00005
	(!A * !C * !D * !Y)	0.00005	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7R	(A * C * !D * !Y)	0.00013	0.00013	0.00013
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	-0.00002	-0.00001	-0.00001
	(A * C * !D * !Y)	-0.00015	-0.00015	-0.00013
	(A * !C * D * !Y)	0.00013	0.00013	0.00013
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * !Y)	-0.00016	-0.00015	-0.00014
	(A * !C * !D * !Y)	0.00013	0.00013	0.00013
	(A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	-0.00016	-0.00015	-0.00014
	(!A * C * D * !Y)	0.00013	0.00013	0.00013
	(!A * C * D * !Y)	0.00000	0.00000	0.00000
	(!A * C * D * !Y)	-0.00003	-0.00003	-0.00002
	(!A * C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * !Y)	0.00013	0.00013	0.00013
	(!A * C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * C * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00013	0.00013	0.00013
	(!A * !C * D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00013	0.00013	0.00013
	(!A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * !Y)	-0.00005	-0.00004	-0.00004
	(!A * !C * !D * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7R	(A * B * !D * !Y)	-0.00011	-0.00011	-0.00011
	(A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * !Y)	0.00001	0.00001	0.00001
	(A * B * !D * !Y)	0.00016	0.00016	0.00017
	(!B * D * !Y)	-0.00011	-0.00011	-0.00011
	(!B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * D * !Y)	0.00002	0.00003	0.00003
	(!B * D * !Y)	0.00007	0.00007	0.00007
	(!B * !D * !Y)	-0.00011	-0.00011	-0.00011
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00004	0.00004	0.00004
	(!B * !D * !Y)	0.00006	0.00007	0.00007
	(!A * B * D * !Y)	-0.00011	-0.00011	-0.00011
	(!A * B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * !Y)	0.00002	0.00003	0.00003
	(!A * B * D * !Y)	0.00006	0.00007	0.00007
	(!A * B * !D * !Y)	-0.00011	-0.00011	-0.00011
	(!A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * !Y)	0.00004	0.00004	0.00004
	(!A * B * !D * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7R	(A * B * !D * !Y)	0.00011	0.00012	0.00013
	(A * B * !D * !Y)	0.00000	0.00000	0.00000
	(A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * !Y)	-0.00016	-0.00015	-0.00014
	(!B * D * !Y)	0.00011	0.00011	0.00011
	(!B * D * !Y)	0.00000	0.00000	0.00000
	(!B * D * !Y)	-0.00003	-0.00003	-0.00002
	(!B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!B * !D * !Y)	0.00012	0.00012	0.00012
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * D * !Y)	0.00011	0.00012	0.00012
	(!A * B * D * !Y)	0.00000	0.00000	0.00000
	(!A * B * D * !Y)	-0.00003	-0.00003	-0.00002
	(!A * B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * !D * !Y)	0.00012	0.00012	0.00012
	(!A * B * !D * !Y)	0.00000	0.00000	0.00000
	(!A * B * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * B * !D * !Y)	-0.00007	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7R	(!C * !Y)	-0.00020	-0.00020	-0.00020
	(!C * !Y)	-0.00000	-0.00000	-0.00000
	(!C * !Y)	0.00002	0.00002	0.00003
	(!C * !Y)	0.00007	0.00008	0.00008
	(!B * C * !Y)	-0.00020	-0.00020	-0.00019
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00002	0.00002	0.00003
	(!B * C * !Y)	0.00007	0.00008	0.00008
	(!A * B * C * !Y)	-0.00020	-0.00020	-0.00020
	(!A * B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * !Y)	0.00002	0.00002	0.00003
	(!A * B * C * !Y)	0.00007	0.00008	0.00008

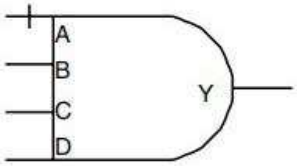
Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X2H7R	(!C * !Y)	0.00020	0.00020	0.00020
	(!C * !Y)	0.00000	0.00000	0.00000
	(!C * !Y)	-0.00002	-0.00002	-0.00002
	(!C * !Y)	-0.00008	-0.00008	-0.00007
	(!B * C * !Y)	0.00019	0.00020	0.00020
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	-0.00008	-0.00008	-0.00007
	(!A * B * C * !Y)	0.00020	0.00020	0.00020
	(!A * B * C * !Y)	0.00000	0.00000	0.00000
	(!A * B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * !Y)	-0.00008	-0.00008	-0.00007

AND4X3H7R

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND4X3H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X3H7R	0.00073	0.00067	0.00064	0.00077	0.11984

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X3H7R	0.00000	0.18826	0.56059

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X3H7R	A->Y (RR)	0.09351	0.24712	0.61221
	B->Y (RR)	0.09103	0.24963	0.62604
	C->Y (RR)	0.08655	0.24994	0.63514
	D->Y (RR)	0.08430	0.24598	0.62780

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X3H7R	A->Y (FF)	0.04703	0.17627	0.47970
	B->Y (FF)	0.04521	0.17314	0.47365
	C->Y (FF)	0.04293	0.16946	0.46696
	D->Y (FF)	0.04197	0.16687	0.46162

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X3H7R	A	0.00084	0.00093	0.00124
	A	0.00003	0.00003	0.00003
	A	-0.00008	-0.00007	-0.00007
	A	0.00199	0.00206	0.00237
	B	0.00086	0.00094	0.00132
	B	0.00003	0.00003	0.00003
	B	-0.00005	-0.00004	-0.00003
	B	0.00181	0.00189	0.00226
	C	0.00087	0.00096	0.00142
	C	0.00003	0.00003	0.00003
	C	-0.00001	-0.00001	0.00001
	C	0.00168	0.00177	0.00222
	D	0.00087	0.00097	0.00158
	D	0.00003	0.00003	0.00003
	D	0.00003	0.00003	0.00005
	D	0.00161	0.00172	0.00233

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X3H7R	A	0.00205	0.00218	0.00268
	A	-0.00003	-0.00003	-0.00000
	A	0.00007	0.00008	0.00008
	A	0.00097	0.00109	0.00159
	B	0.00193	0.00207	0.00257
	B	-0.00003	-0.00003	-0.00001
	B	0.00004	0.00004	0.00005
	B	0.00103	0.00115	0.00165
	C	0.00183	0.00196	0.00246
	C	-0.00003	-0.00003	-0.00003
	C	0.00000	0.00001	0.00001
	C	0.00103	0.00115	0.00166
	D	0.00177	0.00189	0.00240
	D	-0.00003	-0.00003	-0.00002
	D	-0.00003	-0.00003	-0.00003
	D	0.00096	0.00114	0.00166

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7R	(B * C * !D * !Y)	-0.00016	-0.00016	-0.00016
	(B * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * !Y)	0.00001	0.00001	0.00002
	(B * C * !D * !Y)	0.00018	0.00019	0.00020
	(B * !C * D * !Y)	-0.00016	-0.00016	-0.00016
	(B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * !Y)	0.00001	0.00001	0.00002
	(B * !C * D * !Y)	0.00019	0.00019	0.00020
	(B * !C * !D * !Y)	-0.00016	-0.00016	-0.00016
	(B * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * !Y)	0.00001	0.00001	0.00001
	(B * !C * !D * !Y)	0.00019	0.00019	0.00020
	(!B * C * D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * !Y)	0.00000	0.00001	0.00001
	(!B * C * D * !Y)	0.00020	0.00020	0.00020
	(!B * !D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	0.00020	0.00020	0.00020
	(!B * !C * D * !Y)	-0.00016	-0.00016	-0.00016
	(!B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7R	(B * C * !D * !Y)	0.00016	0.00016	0.00016
	(B * C * !D * !Y)	0.00000	0.00000	0.00000
	(B * C * !D * !Y)	-0.00002	-0.00001	-0.00001
	(B * C * !D * !Y)	-0.00019	-0.00019	-0.00017
	(B * !C * D * !Y)	0.00016	0.00016	0.00016
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	-0.00002	-0.00001	-0.00001
	(B * !C * D * !Y)	-0.00019	-0.00019	-0.00018
	(B * !C * !D * !Y)	0.00016	0.00016	0.00016
	(B * !C * !D * !Y)	0.00000	0.00000	0.00000
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * !Y)	-0.00019	-0.00019	-0.00018
	(!B * C * D * !Y)	0.00016	0.00016	0.00016
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	-0.00001	-0.00001	-0.00000
	(!B * C * D * !Y)	-0.00020	-0.00019	-0.00018
	(!B * !D * !Y)	0.00016	0.00016	0.00016
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	-0.00020	-0.00019	-0.00019
	(!B * !C * D * !Y)	0.00016	0.00016	0.00016
	(!B * !C * D * !Y)	0.00000	0.00000	0.00000
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * !Y)	-0.00020	-0.00019	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7R	(A * C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * !Y)	0.00000	0.00001	0.00001
	(A * C * !D * !Y)	0.00014	0.00015	0.00015
	(A * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * !Y)	0.00000	0.00001	0.00001
	(A * !C * D * !Y)	0.00015	0.00015	0.00016
	(A * !C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	0.00014	0.00015	0.00015
	(!A * C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!A * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * !Y)	0.00003	0.00003	0.00004
	(!A * C * D * !Y)	0.00005	0.00006	0.00006
	(!A * C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(!A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * !Y)	0.00004	0.00004	0.00004
	(!A * C * !D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * !Y)	0.00003	0.00004	0.00004
	(!A * !C * D * !Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * !Y)	0.00004	0.00004	0.00004
	(!A * !C * !D * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7R	(A * C * !D * !Y)	0.00015	0.00015	0.00015
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !D * !Y)	-0.00014	-0.00014	-0.00012
	(A * !C * D * !Y)	0.00015	0.00015	0.00015
	(A * !C * D * !Y)	0.00000	0.00000	0.00000
	(A * !C * D * !Y)	-0.00001	-0.00001	0.00000
	(A * !C * D * !Y)	-0.00015	-0.00014	-0.00013
	(A * !C * !D * !Y)	0.00015	0.00015	0.00015
	(A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * !Y)	-0.00015	-0.00014	-0.00013
	(!A * C * D * !Y)	0.00015	0.00015	0.00015
	(!A * C * D * !Y)	0.00000	0.00000	0.00000
	(!A * C * D * !Y)	-0.00003	-0.00003	-0.00003
	(!A * C * D * !Y)	-0.00006	-0.00006	-0.00005
	(!A * C * !D * !Y)	0.00015	0.00015	0.00015
	(!A * C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * C * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * C * !D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * !Y)	0.00015	0.00015	0.00015
	(!A * !C * D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * D * !Y)	-0.00004	-0.00004	-0.00003
	(!A * !C * D * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * !Y)	0.00015	0.00015	0.00015
	(!A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * !D * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7R	(A * B * !D * !Y)	-0.00013	-0.00013	-0.00013
	(A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * !Y)	0.00001	0.00001	0.00001
	(A * B * !D * !Y)	0.00015	0.00016	0.00016
	(!B * D * !Y)	-0.00013	-0.00013	-0.00013
	(!B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * D * !Y)	0.00003	0.00003	0.00003
	(!B * D * !Y)	0.00007	0.00007	0.00007
	(!B * !D * !Y)	-0.00013	-0.00013	-0.00013
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00004	0.00004	0.00004
	(!B * !D * !Y)	0.00006	0.00006	0.00007
	(!A * B * D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * !Y)	0.00002	0.00003	0.00003
	(!A * B * D * !Y)	0.00006	0.00007	0.00007
	(!A * B * !D * !Y)	-0.00013	-0.00013	-0.00013
	(!A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * !Y)	0.00004	0.00004	0.00004
	(!A * B * !D * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7R	(A * B * !D * !Y)	0.00013	0.00013	0.00014
	(A * B * !D * !Y)	0.00000	0.00000	0.00000
	(A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * !Y)	-0.00015	-0.00015	-0.00013
	(!B * D * !Y)	0.00013	0.00013	0.00013
	(!B * D * !Y)	0.00000	0.00000	0.00000
	(!B * D * !Y)	-0.00003	-0.00003	-0.00003
	(!B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!B * !D * !Y)	0.00013	0.00013	0.00013
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * D * !Y)	0.00013	0.00013	0.00013
	(!A * B * D * !Y)	0.00000	0.00000	0.00000
	(!A * B * D * !Y)	-0.00003	-0.00003	-0.00002
	(!A * B * D * !Y)	-0.00007	-0.00006	-0.00006
	(!A * B * !D * !Y)	0.00013	0.00013	0.00014
	(!A * B * !D * !Y)	0.00000	0.00000	0.00000
	(!A * B * !D * !Y)	-0.00004	-0.00004	-0.00004
	(!A * B * !D * !Y)	-0.00007	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7R	(!C * !Y)	-0.00021	-0.00021	-0.00021
	(!C * !Y)	-0.00000	-0.00000	-0.00000
	(!C * !Y)	0.00001	0.00002	0.00002
	(!C * !Y)	0.00007	0.00007	0.00008
	(!B * C * !Y)	-0.00021	-0.00021	-0.00021
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00001	0.00002	0.00002
	(!B * C * !Y)	0.00007	0.00007	0.00008
	(!A * B * C * !Y)	-0.00021	-0.00021	-0.00021
	(!A * B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * !Y)	0.00001	0.00002	0.00002
	(!A * B * C * !Y)	0.00007	0.00007	0.00008

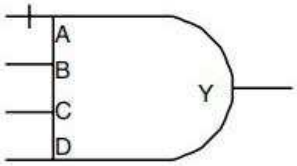
Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X3H7R	(!C * !Y)	0.00021	0.00021	0.00021
	(!C * !Y)	0.00000	0.00000	0.00000
	(!C * !Y)	-0.00002	-0.00002	-0.00001
	(!C * !Y)	-0.00007	-0.00007	-0.00007
	(!B * C * !Y)	0.00021	0.00021	0.00021
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	-0.00002	-0.00002	-0.00001
	(!B * C * !Y)	-0.00007	-0.00007	-0.00007
	(!A * B * C * !Y)	0.00021	0.00021	0.00021
	(!A * B * C * !Y)	0.00000	0.00000	0.00000
	(!A * B * C * !Y)	-0.00002	-0.00002	-0.00001
	(!A * B * C * !Y)	-0.00007	-0.00007	-0.00007

AND4X4H7R

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND4X4H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X4H7R	0.00123	0.00120	0.00118	0.00125	0.16935

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X4H7R	0.00000	0.27423	0.77788

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X4H7R	A->Y (RR)	0.08762	0.24127	0.60302
	B->Y (RR)	0.08514	0.24166	0.61029
	C->Y (RR)	0.08032	0.23987	0.61443
	D->Y (RR)	0.07134	0.22878	0.59932

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X4H7R	A->Y (FF)	0.06203	0.19834	0.51718
	B->Y (FF)	0.05887	0.19289	0.50694
	C->Y (FF)	0.05507	0.18696	0.49630
	D->Y (FF)	0.05004	0.17916	0.48345

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X4H7R	A	0.00151	0.00162	0.00199
	A	0.00003	0.00004	0.00004
	A	-0.00018	-0.00018	-0.00018
	A	0.00372	0.00383	0.00420
	B	0.00152	0.00163	0.00212
	B	0.00003	0.00004	0.00004
	B	-0.00013	-0.00011	-0.00004
	B	0.00336	0.00348	0.00396
	C	0.00152	0.00165	0.00228
	C	0.00003	0.00004	0.00004
	C	-0.00005	-0.00004	-0.00004
	C	0.00301	0.00315	0.00377
	D	0.00151	0.00169	0.00262
	D	0.00003	0.00004	0.00004
	D	0.00003	0.00003	0.00004
	D	0.00270	0.00290	0.00381

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X4H7R	A	0.00392	0.00412	0.00493
	A	-0.00004	-0.00003	-0.00001
	A	0.00018	0.00018	0.00018
	A	0.00185	0.00203	0.00286
	B	0.00361	0.00381	0.00462
	B	-0.00004	-0.00003	0.00002
	B	0.00004	0.00011	0.00016
	B	0.00181	0.00204	0.00286
	C	0.00333	0.00352	0.00434
	C	-0.00004	-0.00003	-0.00002
	C	0.00004	0.00004	0.00005
	C	0.00187	0.00206	0.00288
	D	0.00297	0.00318	0.00403
	D	-0.00004	-0.00003	-0.00001
	D	-0.00003	-0.00003	-0.00003
	D	0.00178	0.00198	0.00284

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7R	(B * C * !D * !Y)	-0.00020	-0.00020	-0.00020
	(B * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * !Y)	0.00001	0.00002	0.00002
	(B * C * !D * !Y)	0.00038	0.00039	0.00039
	(B * !C * D * !Y)	-0.00020	-0.00020	-0.00020
	(B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * !Y)	0.00002	0.00002	0.00002
	(B * !C * D * !Y)	0.00039	0.00039	0.00039
	(B * !C * !D * !Y)	-0.00020	-0.00020	-0.00020
	(B * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * !Y)	0.00002	0.00002	0.00002
	(B * !C * !D * !Y)	0.00038	0.00038	0.00038
	(!B * C * D * !Y)	-0.00020	-0.00020	-0.00020
	(!B * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * !Y)	0.00002	0.00002	0.00002
	(!B * C * D * !Y)	0.00039	0.00040	0.00040
	(!B * !D * !Y)	-0.00020	-0.00020	-0.00020
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00002	0.00002	0.00002
	(!B * !D * !Y)	0.00039	0.00039	0.00040
	(!B * !C * D * !Y)	-0.00020	-0.00020	-0.00020
	(!B * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * !Y)	0.00002	0.00002	0.00002
	(!B * !C * D * !Y)	0.00039	0.00039	0.00040

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7R	(B * C * !D * !Y)	0.00020	0.00020	0.00020
	(B * C * !D * !Y)	0.00000	0.00000	0.00000
	(B * C * !D * !Y)	-0.00002	-0.00002	-0.00001
	(B * C * !D * !Y)	-0.00038	-0.00036	-0.00032
	(B * !C * D * !Y)	0.00020	0.00020	0.00020
	(B * !C * D * !Y)	0.00000	0.00000	0.00000
	(B * !C * D * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * D * !Y)	-0.00039	-0.00036	-0.00032
	(B * !C * !D * !Y)	0.00020	0.00020	0.00020
	(B * !C * !D * !Y)	0.00000	0.00000	0.00000
	(B * !C * !D * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * !Y)	-0.00038	-0.00036	-0.00033
	(!B * C * D * !Y)	0.00020	0.00020	0.00020
	(!B * C * D * !Y)	0.00000	0.00000	0.00000
	(!B * C * D * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * D * !Y)	-0.00040	-0.00038	-0.00035
	(!B * !D * !Y)	0.00020	0.00020	0.00020
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * !Y)	-0.00039	-0.00038	-0.00035
	(!B * !C * D * !Y)	0.00020	0.00020	0.00020
	(!B * !C * D * !Y)	0.00000	0.00000	0.00000
	(!B * !C * D * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * !Y)	-0.00039	-0.00038	-0.00035

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7R	(A * C * !D * !Y)	-0.00020	-0.00020	-0.00020
	(A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * !Y)	0.00000	0.00002	0.00002
	(A * C * !D * !Y)	0.00037	0.00037	0.00038
	(A * !C * D * !Y)	-0.00020	-0.00020	-0.00020
	(A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * !Y)	0.00002	0.00002	0.00003
	(A * !C * D * !Y)	0.00037	0.00038	0.00038
	(A * !C * !D * !Y)	-0.00020	-0.00020	-0.00020
	(A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * !Y)	0.00002	0.00002	0.00002
	(A * !C * !D * !Y)	0.00036	0.00037	0.00037
	(!A * C * D * !Y)	-0.00021	-0.00020	-0.00020
	(!A * C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * !Y)	0.00005	0.00006	0.00007
	(!A * C * D * !Y)	0.00013	0.00014	0.00015
	(!A * C * !D * !Y)	-0.00021	-0.00021	-0.00021
	(!A * C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * !Y)	0.00007	0.00007	0.00007
	(!A * C * !D * !Y)	0.00015	0.00016	0.00016
	(!A * !C * D * !Y)	-0.00021	-0.00021	-0.00021
	(!A * !C * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * !Y)	0.00007	0.00007	0.00007
	(!A * !C * D * !Y)	0.00015	0.00015	0.00015
	(!A * !C * !D * !Y)	-0.00021	-0.00021	-0.00020
	(!A * !C * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * !Y)	0.00007	0.00007	0.00008
	(!A * !C * !D * !Y)	0.00015	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7R	(A * C * !D * !Y)	0.00020	0.00021	0.00022
	(A * C * !D * !Y)	0.00000	0.00000	0.00000
	(A * C * !D * !Y)	-0.00002	-0.00002	-0.00000
	(A * C * !D * !Y)	-0.00037	-0.00034	-0.00030
	(A * !C * D * !Y)	0.00020	0.00020	0.00021
	(A * !C * D * !Y)	0.00000	0.00000	0.00001
	(A * !C * D * !Y)	-0.00003	-0.00002	-0.00002
	(A * !C * D * !Y)	-0.00037	-0.00035	-0.00033
	(A * !C * !D * !Y)	0.00020	0.00020	0.00020
	(A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(A * !C * !D * !Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !D * !Y)	-0.00037	-0.00035	-0.00033
	(!A * C * D * !Y)	0.00021	0.00021	0.00021
	(!A * C * D * !Y)	0.00000	0.00000	0.00000
	(!A * C * D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * C * D * !Y)	-0.00014	-0.00014	-0.00013
	(!A * C * !D * !Y)	0.00021	0.00021	0.00022
	(!A * C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * C * !D * !Y)	-0.00007	-0.00007	-0.00007
	(!A * C * !D * !Y)	-0.00016	-0.00016	-0.00015
	(!A * !C * D * !Y)	0.00021	0.00021	0.00021
	(!A * !C * D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * D * !Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * D * !Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * !D * !Y)	0.00020	0.00021	0.00021
	(!A * !C * !D * !Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * !Y)	-0.00008	-0.00007	-0.00007
	(!A * !C * !D * !Y)	-0.00015	-0.00015	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7R	(A * B * !D * !Y)	-0.00020	-0.00020	-0.00020
	(A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * !Y)	0.00001	0.00001	0.00002
	(A * B * !D * !Y)	0.00037	0.00038	0.00039
	(!B * D * !Y)	-0.00022	-0.00021	-0.00021
	(!B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * D * !Y)	0.00005	0.00005	0.00007
	(!B * D * !Y)	0.00014	0.00015	0.00016
	(!B * !D * !Y)	-0.00022	-0.00022	-0.00022
	(!B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * !Y)	0.00006	0.00007	0.00007
	(!B * !D * !Y)	0.00016	0.00016	0.00017
	(!A * B * D * !Y)	-0.00021	-0.00021	-0.00021
	(!A * B * D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * !Y)	0.00004	0.00005	0.00006
	(!A * B * D * !Y)	0.00015	0.00015	0.00016
	(!A * B * !D * !Y)	-0.00021	-0.00021	-0.00021
	(!A * B * !D * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * !Y)	0.00007	0.00007	0.00007
	(!A * B * !D * !Y)	0.00015	0.00015	0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7R	(A * B * !D * !Y)	0.00020	0.00021	0.00024
	(A * B * !D * !Y)	0.00000	0.00000	0.00000
	(A * B * !D * !Y)	-0.00002	-0.00001	-0.00001
	(A * B * !D * !Y)	-0.00038	-0.00036	-0.00032
	(!B * D * !Y)	0.00022	0.00022	0.00022
	(!B * D * !Y)	0.00000	0.00000	0.00000
	(!B * D * !Y)	-0.00005	-0.00005	-0.00005
	(!B * D * !Y)	-0.00016	-0.00015	-0.00014
	(!B * !D * !Y)	0.00022	0.00022	0.00022
	(!B * !D * !Y)	0.00000	0.00000	0.00000
	(!B * !D * !Y)	-0.00007	-0.00007	-0.00006
	(!B * !D * !Y)	-0.00016	-0.00016	-0.00016
	(!A * B * D * !Y)	0.00021	0.00022	0.00022
	(!A * B * D * !Y)	0.00000	0.00000	0.00000
	(!A * B * D * !Y)	-0.00005	-0.00005	-0.00004
	(!A * B * D * !Y)	-0.00015	-0.00014	-0.00014
	(!A * B * !D * !Y)	0.00021	0.00022	0.00022
	(!A * B * !D * !Y)	0.00000	0.00000	0.00000
	(!A * B * !D * !Y)	-0.00007	-0.00007	-0.00007
	(!A * B * !D * !Y)	-0.00016	-0.00015	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7R	(!C * !Y)	-0.00034	-0.00034	-0.00033
	(!C * !Y)	-0.00000	-0.00000	-0.00000
	(!C * !Y)	0.00003	0.00003	0.00004
	(!C * !Y)	0.00014	0.00015	0.00015
	(!B * C * !Y)	-0.00034	-0.00034	-0.00033
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	0.00003	0.00003	0.00003
	(!B * C * !Y)	0.00013	0.00014	0.00014
	(!A * B * C * !Y)	-0.00034	-0.00034	-0.00033
	(!A * B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * !Y)	0.00003	0.00003	0.00003
	(!A * B * C * !Y)	0.00013	0.00014	0.00014

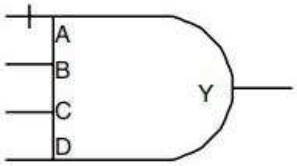
Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X4H7R	(!C * !Y)	0.00034	0.00034	0.00034
	(!C * !Y)	0.00000	0.00000	0.00001
	(!C * !Y)	-0.00003	-0.00003	-0.00003
	(!C * !Y)	-0.00015	-0.00015	-0.00014
	(!B * C * !Y)	0.00034	0.00034	0.00034
	(!B * C * !Y)	0.00000	0.00000	0.00001
	(!B * C * !Y)	-0.00003	-0.00003	-0.00003
	(!B * C * !Y)	-0.00014	-0.00014	-0.00013
	(!A * B * C * !Y)	0.00034	0.00034	0.00034
	(!A * B * C * !Y)	0.00000	0.00000	0.00001
	(!A * B * C * !Y)	-0.00003	-0.00003	-0.00003
	(!A * B * C * !Y)	-0.00014	-0.00013	-0.00013

AND4X6H7R

Cell Description

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



Truth Table

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

Footprint

Cell Name	Area
AND4X6H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
AND4X6H7R	0.00132	0.00128	0.00127	0.00133	0.23968

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AND4X6H7R	0.00000	0.37651	1.12119

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X6H7R	A->Y (RR)	0.09391	0.25139	0.61962
	B->Y (RR)	0.09131	0.25226	0.62917
	C->Y (RR)	0.08666	0.25130	0.63615
	D->Y (RR)	0.07731	0.24038	0.62174

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AND4X6H7R	A->Y (FF)	0.04621	0.17753	0.48323
	B->Y (FF)	0.04441	0.17370	0.47558
	C->Y (FF)	0.04216	0.16956	0.46746
	D->Y (FF)	0.03889	0.16381	0.45711

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X6H7R	A	0.00168	0.00185	0.00246
	A	0.00006	0.00006	0.00007
	A	-0.00015	-0.00015	-0.00014
	A	0.00403	0.00416	0.00477
	B	0.00171	0.00187	0.00264
	B	0.00006	0.00006	0.00007
	B	-0.00008	-0.00008	-0.00004
	B	0.00366	0.00381	0.00458
	C	0.00170	0.00188	0.00285
	C	0.00006	0.00006	0.00007
	C	-0.00001	-0.00001	0.00002
	C	0.00332	0.00349	0.00445
	D	0.00171	0.00194	0.00327
	D	0.00006	0.00006	0.00007
	D	0.00006	0.00006	0.00007
	D	0.00300	0.00325	0.00456

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AND4X6H7R	A	0.00434	0.00458	0.00563
	A	-0.00006	-0.00006	-0.00004
	A	0.00014	0.00015	0.00015
	A	0.00216	0.00238	0.00346
	B	0.00403	0.00427	0.00532
	B	-0.00006	-0.00006	-0.00006
	B	0.00004	0.00008	0.00008
	B	0.00217	0.00240	0.00346
	C	0.00374	0.00399	0.00505
	C	-0.00006	-0.00006	0.00003
	C	0.00000	0.00001	0.00001
	C	0.00218	0.00241	0.00348
	D	0.00338	0.00364	0.00476
	D	-0.00006	-0.00006	-0.00005
	D	-0.00006	-0.00006	-0.00006
	D	0.00209	0.00233	0.00346

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7R	(B * C * !D * !Y)	-0.00026	-0.00026	-0.00026
	(B * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * !Y)	0.00002	0.00002	0.00003
	(B * C * !D * !Y)	0.00036	0.00038	0.00038
	(B * !C * D * !Y)	-0.00026	-0.00026	-0.00025
	(B * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * !Y)	0.00002	0.00002	0.00003
	(B * !C * D * !Y)	0.00037	0.00038	0.00038
	(B * !C * !D * !Y)	-0.00026	-0.00026	-0.00026
	(B * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * !Y)	0.00002	0.00002	0.00002
	(B * !C * !D * !Y)	0.00038	0.00038	0.00038
	(!B * C * D * !Y)	-0.00026	-0.00026	-0.00025
	(!B * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * !Y)	0.00001	0.00002	0.00002
	(!B * C * D * !Y)	0.00040	0.00040	0.00041
	(!B * !D * !Y)	-0.00026	-0.00026	-0.00025
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * !Y)	0.00002	0.00002	0.00002
	(!B * !D * !Y)	0.00039	0.00039	0.00039
	(!B * !C * D * !Y)	-0.00026	-0.00026	-0.00025
	(!B * !C * D * !Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * D * !Y)	0.00002	0.00002	0.00002
	(!B * !C * D * !Y)	0.00039	0.00039	0.00039

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7R	(B * C * !D * !Y)	0.00026	0.00026	0.00026
	(B * C * !D * !Y)	0.00001	0.00001	0.00001
	(B * C * !D * !Y)	-0.00003	-0.00002	-0.00002
	(B * C * !D * !Y)	-0.00038	-0.00035	-0.00032
	(B * !C * D * !Y)	0.00026	0.00026	0.00026
	(B * !C * D * !Y)	0.00001	0.00001	0.00001
	(B * !C * D * !Y)	-0.00003	-0.00002	-0.00002
	(B * !C * D * !Y)	-0.00038	-0.00036	-0.00033
	(B * !C * !D * !Y)	0.00026	0.00026	0.00026
	(B * !C * !D * !Y)	0.00001	0.00001	0.00001
	(B * !C * !D * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * !Y)	-0.00038	-0.00036	-0.00032
	(!B * C * D * !Y)	0.00026	0.00026	0.00026
	(!B * C * D * !Y)	0.00001	0.00001	0.00001
	(!B * C * D * !Y)	-0.00002	-0.00002	-0.00001
	(!B * C * D * !Y)	-0.00039	-0.00037	-0.00035
	(!B * !D * !Y)	0.00025	0.00026	0.00026
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * !Y)	-0.00039	-0.00037	-0.00034
	(!B * !C * D * !Y)	0.00025	0.00026	0.00026
	(!B * !C * D * !Y)	0.00001	0.00001	0.00001
	(!B * !C * D * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * !Y)	-0.00039	-0.00037	-0.00034

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7R	(A * C * !D * !Y)	-0.00026	-0.00026	-0.00025
	(A * C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * !Y)	0.00002	0.00002	0.00004
	(A * C * !D * !Y)	0.00034	0.00035	0.00036
	(A * !C * D * !Y)	-0.00026	-0.00025	-0.00025
	(A * !C * D * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * !Y)	0.00000	0.00001	0.00002
	(A * !C * D * !Y)	0.00036	0.00037	0.00038
	(A * !C * !D * !Y)	-0.00026	-0.00026	-0.00025
	(A * !C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !D * !Y)	0.00002	0.00002	0.00002
	(A * !C * !D * !Y)	0.00035	0.00036	0.00036
	(!A * C * D * !Y)	-0.00026	-0.00026	-0.00026
	(!A * C * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * !Y)	0.00005	0.00005	0.00006
	(!A * C * D * !Y)	0.00014	0.00014	0.00015
	(!A * C * !D * !Y)	-0.00027	-0.00026	-0.00026
	(!A * C * !D * !Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !D * !Y)	0.00007	0.00007	0.00007
	(!A * C * !D * !Y)	0.00015	0.00015	0.00015
	(!A * !C * D * !Y)	-0.00026	-0.00026	-0.00026
	(!A * !C * D * !Y)	-0.00001	-0.00001	-0.00000
	(!A * !C * D * !Y)	0.00006	0.00007	0.00007
	(!A * !C * D * !Y)	0.00015	0.00015	0.00015
	(!A * !C * !D * !Y)	-0.00026	-0.00026	-0.00026
	(!A * !C * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !D * !Y)	0.00007	0.00007	0.00008
	(!A * !C * !D * !Y)	0.00015	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7R	(A * C * !D * !Y)	0.00026	0.00026	0.00027
	(A * C * !D * !Y)	0.00001	0.00001	0.00001
	(A * C * !D * !Y)	-0.00004	-0.00002	-0.00002
	(A * C * !D * !Y)	-0.00036	-0.00033	-0.00029
	(A * !C * D * !Y)	0.00026	0.00026	0.00026
	(A * !C * D * !Y)	0.00001	0.00001	0.00001
	(A * !C * D * !Y)	-0.00002	-0.00001	-0.00000
	(A * !C * D * !Y)	-0.00036	-0.00034	-0.00031
	(A * !C * !D * !Y)	0.00025	0.00026	0.00026
	(A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(A * !C * !D * !Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !D * !Y)	-0.00036	-0.00034	-0.00032
	(!A * C * D * !Y)	0.00026	0.00026	0.00026
	(!A * C * D * !Y)	0.00001	0.00001	0.00001
	(!A * C * D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * C * D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * C * !D * !Y)	0.00026	0.00027	0.00027
	(!A * C * !D * !Y)	0.00001	0.00001	0.00001
	(!A * C * !D * !Y)	-0.00007	-0.00007	-0.00007
	(!A * C * !D * !Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * D * !Y)	0.00026	0.00026	0.00026
	(!A * !C * D * !Y)	0.00001	0.00001	0.00001
	(!A * !C * D * !Y)	-0.00007	-0.00007	-0.00006
	(!A * !C * D * !Y)	-0.00015	-0.00015	-0.00014
	(!A * !C * !D * !Y)	0.00026	0.00026	0.00026
	(!A * !C * !D * !Y)	0.00001	0.00001	0.00001
	(!A * !C * !D * !Y)	-0.00008	-0.00007	-0.00007
	(!A * !C * !D * !Y)	-0.00015	-0.00015	-0.00014

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7R	(A * B * !D * !Y)	-0.00026	-0.00026	-0.00026
	(A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * !Y)	0.00000	0.00001	0.00002
	(A * B * !D * !Y)	0.00038	0.00038	0.00039
	(!B * D * !Y)	-0.00027	-0.00027	-0.00027
	(!B * D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * D * !Y)	0.00005	0.00006	0.00007
	(!B * D * !Y)	0.00013	0.00015	0.00015
	(!B * !D * !Y)	-0.00027	-0.00027	-0.00027
	(!B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * !Y)	0.00006	0.00006	0.00007
	(!B * !D * !Y)	0.00016	0.00016	0.00016
	(!A * B * D * !Y)	-0.00027	-0.00027	-0.00027
	(!A * B * D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * D * !Y)	0.00005	0.00005	0.00006
	(!A * B * D * !Y)	0.00014	0.00015	0.00015
	(!A * B * !D * !Y)	-0.00027	-0.00027	-0.00027
	(!A * B * !D * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !D * !Y)	0.00007	0.00007	0.00007
	(!A * B * !D * !Y)	0.00015	0.00015	0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7R	(A * B * !D * !Y)	0.00026	0.00027	0.00029
	(A * B * !D * !Y)	0.00001	0.00001	0.00001
	(A * B * !D * !Y)	-0.00002	-0.00001	0.00000
	(A * B * !D * !Y)	-0.00037	-0.00035	-0.00031
	(!B * D * !Y)	0.00027	0.00027	0.00027
	(!B * D * !Y)	0.00001	0.00001	0.00001
	(!B * D * !Y)	-0.00005	-0.00005	-0.00005
	(!B * D * !Y)	-0.00015	-0.00015	-0.00013
	(!B * !D * !Y)	0.00028	0.00028	0.00028
	(!B * !D * !Y)	0.00001	0.00001	0.00001
	(!B * !D * !Y)	-0.00007	-0.00006	-0.00006
	(!B * !D * !Y)	-0.00016	-0.00016	-0.00015
	(!A * B * D * !Y)	0.00027	0.00027	0.00027
	(!A * B * D * !Y)	0.00001	0.00001	0.00001
	(!A * B * D * !Y)	-0.00005	-0.00005	-0.00005
	(!A * B * D * !Y)	-0.00014	-0.00014	-0.00014
	(!A * B * !D * !Y)	0.00027	0.00027	0.00028
	(!A * B * !D * !Y)	0.00001	0.00001	0.00001
	(!A * B * !D * !Y)	-0.00007	-0.00007	-0.00007
	(!A * B * !D * !Y)	-0.00015	-0.00015	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7R	(!C * !Y)	-0.00039	-0.00039	-0.00038
	(!C * !Y)	-0.00001	-0.00001	-0.00001
	(!C * !Y)	0.00002	0.00003	0.00003
	(!C * !Y)	0.00014	0.00014	0.00015
	(!B * C * !Y)	-0.00039	-0.00039	-0.00038
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00003	0.00003	0.00003
	(!B * C * !Y)	0.00013	0.00013	0.00014
	(!A * B * C * !Y)	-0.00039	-0.00039	-0.00038
	(!A * B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * !Y)	0.00003	0.00003	0.00003
	(!A * B * C * !Y)	0.00012	0.00013	0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max
AND4X6H7R	(!C * !Y)	0.00039	0.00039	0.00039
	(!C * !Y)	0.00001	0.00001	0.00001
	(!C * !Y)	-0.00003	-0.00003	-0.00002
	(!C * !Y)	-0.00014	-0.00014	-0.00014
	(!B * C * !Y)	0.00038	0.00039	0.00039
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00003	-0.00003	-0.00003
	(!B * C * !Y)	-0.00013	-0.00013	-0.00013
	(!A * B * C * !Y)	0.00039	0.00039	0.00039
	(!A * B * C * !Y)	0.00001	0.00001	0.00001
	(!A * B * C * !Y)	-0.00003	-0.00003	-0.00003
	(!A * B * C * !Y)	-0.00013	-0.00013	-0.00012

AO211X0P5H7R

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

Cell Description

Y=(A0 & A1)B0C0

Truth Table

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

Footprint

Cell Name	Area
AO211X0P5H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X0P5H7R	0.00071	0.00069	0.00067	0.00076	0.04258

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X0P5H7R	0.00000	0.21241	0.46751

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X0P5H7R	A0->Y (RR)	0.05208	0.19852	0.55457
	A1->Y (RR)	0.04970	0.19565	0.54685
	B0->Y (RR)	0.03352	0.17403	0.51337
	C0->Y (RR)	0.03261	0.17123	0.50736

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X0P5H7R	A0->Y (FF)	0.08692	0.21051	0.50330
	A1->Y (FF)	0.07961	0.20168	0.49242
	B0->Y (FF)	0.07886	0.20672	0.51438
	C0->Y (FF)	0.07525	0.20401	0.51302

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X0P5H7R	A0	0.00031	0.00037	0.00052
	A0	0.00010	0.00010	0.00010
	A0	-0.00008	-0.00008	-0.00006
	A0	0.00148	0.00153	0.00167
	A1	0.00031	0.00039	0.00063
	A1	0.00010	0.00010	0.00010
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00132	0.00139	0.00163
	B0	0.00031	0.00040	0.00069
	B0	0.00003	0.00004	0.00005
	B0	-0.00004	-0.00004	-0.00001
	B0	0.00121	0.00131	0.00158
	C0	0.00031	0.00042	0.00072
	C0	-0.00000	0.00000	0.00001
	C0	-0.00004	-0.00004	-0.00004
	C0	0.00116	0.00126	0.00155

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X0P5H7R	A0	0.00163	0.00167	0.00179
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00008	0.00008	0.00008
	A0	0.00041	0.00046	0.00057
	A1	0.00151	0.00156	0.00169
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00004	0.00004	0.00004
	A1	0.00045	0.00050	0.00064
	B0	0.00132	0.00138	0.00158
	B0	-0.00005	-0.00004	-0.00003
	B0	0.00008	0.00008	0.00008
	B0	0.00040	0.00047	0.00069
	C0	0.00120	0.00129	0.00159
	C0	-0.00000	0.00000	0.00000
	C0	0.00008	0.00008	0.00008
	C0	0.00036	0.00046	0.00079

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7R	(A1 * B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00016	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7R	(A1 * B0 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(A1 * B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00024	-0.00023	-0.00023
	(A1 * !B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7R	(A0 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(A0 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00018	0.00019	0.00019
	(A0 * !B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00018	0.00019	0.00019
	(!A0 * B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7R	(A0 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * !B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7R	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00019	0.00020	0.00020
	(!A1 * C0 * Y)	-0.00011	-0.00010	-0.00009
	(!A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * C0 * Y)	-0.00011	-0.00010	-0.00009
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00018	0.00019	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7R	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * C0 * Y)	0.00011	0.00011	0.00011
	(!A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00018	-0.00018	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00028	0.00028	0.00028

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P5H7R	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00028	-0.00028	-0.00028

AO211X0P7H7R

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

Cell Description

Y=(A0 & A1)B0C0

Truth Table

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

Footprint

Cell Name	Area
AO211X0P7H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X0P7H7R	0.00071	0.00069	0.00067	0.00077	0.04836

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X0P7H7R	0.00000	0.22807	0.47446

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X0P7H7R	A0->Y (RR)	0.05149	0.19869	0.55564
	A1->Y (RR)	0.04911	0.19588	0.54874
	B0->Y (RR)	0.03271	0.17391	0.51453
	C0->Y (RR)	0.03185	0.17116	0.50874

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X0P7H7R	A0->Y (FF)	0.08679	0.21132	0.50518
	A1->Y (FF)	0.07944	0.20246	0.49421
	B0->Y (FF)	0.07857	0.20741	0.51619
	C0->Y (FF)	0.07510	0.20480	0.51505

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X0P7H7R	A0	0.00033	0.00039	0.00054
	A0	0.00009	0.00010	0.00010
	A0	-0.00008	-0.00007	-0.00005
	A0	0.00149	0.00155	0.00170
	A1	0.00034	0.00042	0.00066
	A1	0.00009	0.00009	0.00010
	A1	-0.00004	-0.00004	-0.00003
	A1	0.00134	0.00142	0.00166
	B0	0.00033	0.00043	0.00072
	B0	0.00004	0.00004	0.00004
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00124	0.00133	0.00161
	C0	0.00034	0.00044	0.00076
	C0	-0.00000	-0.00000	0.00000
	C0	-0.00004	-0.00004	-0.00003
	C0	0.00117	0.00128	0.00158

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X0P7H7R	A0	0.00165	0.00170	0.00182
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00007	0.00007	0.00008
	A0	0.00045	0.00049	0.00061
	A1	0.00153	0.00158	0.00172
	A1	-0.00010	-0.00009	-0.00009
	A1	0.00003	0.00004	0.00004
	A1	0.00048	0.00053	0.00067
	B0	0.00134	0.00140	0.00161
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00007	0.00007	0.00007
	B0	0.00042	0.00049	0.00073
	C0	0.00122	0.00131	0.00162
	C0	0.00000	0.00000	0.00001
	C0	0.00007	0.00007	0.00007
	C0	0.00039	0.00049	0.00083

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7R	(A1 * B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00023	0.00024	0.00024
	(A1 * !B0 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00016	0.00017	0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7R	(A1 * B0 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(A1 * B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !B0 * C0 * Y)	0.00012	0.00012	0.00013
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00014

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7R	(A0 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(A0 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00018	0.00019	0.00019
	(!A0 * B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7R	(A0 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * !B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7R	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * C0 * Y)	-0.00011	-0.00010	-0.00009
	(!A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * C0 * Y)	-0.00011	-0.00010	-0.00009
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00018	0.00019	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7R	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * C0 * Y)	0.00011	0.00011	0.00011
	(!A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00018	-0.00018	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00028	0.00028	0.00028

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X0P7H7R	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00028	-0.00028	-0.00028

AO211X1H7R

Cell Description

Y=(A0 & A1)B0C0

Truth Table

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

Footprint

Cell Name	Area
AO211X1H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X1H7R	0.00071	0.00069	0.00066	0.00076	0.05769

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X1H7R	0.00000	0.24981	0.48541

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X1H7R	A0->Y (RR)	0.05092	0.19919	0.55873
	A1->Y (RR)	0.04852	0.19644	0.55214
	B0->Y (RR)	0.03178	0.17382	0.51628
	C0->Y (RR)	0.03091	0.17109	0.51066

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X1H7R	A0->Y (FF)	0.08727	0.21480	0.51458
	A1->Y (FF)	0.07995	0.20596	0.50366
	B0->Y (FF)	0.07872	0.21066	0.52556
	C0->Y (FF)	0.07526	0.20814	0.52421

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X1H7R	A0	0.00037	0.00043	0.00060
	A0	0.00009	0.00009	0.00009
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00152	0.00159	0.00174
	A1	0.00038	0.00046	0.00072
	A1	0.00009	0.00009	0.00009
	A1	-0.00003	-0.00003	-0.00001
	A1	0.00134	0.00145	0.00170
	B0	0.00036	0.00046	0.00076
	B0	0.00003	0.00003	0.00003
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00126	0.00135	0.00165
	C0	0.00037	0.00048	0.00080
	C0	-0.00001	-0.00001	0.00000
	C0	-0.00003	-0.00003	-0.00003
	C0	0.00120	0.00130	0.00162

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X1H7R	A0	0.00169	0.00174	0.00187
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00007	0.00007	0.00007
	A0	0.00049	0.00054	0.00067
	A1	0.00157	0.00162	0.00177
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00003	0.00003	0.00003
	A1	0.00053	0.00058	0.00073
	B0	0.00137	0.00144	0.00166
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00007	0.00007	0.00007
	B0	0.00047	0.00054	0.00079
	C0	0.00126	0.00135	0.00168
	C0	0.00000	0.00001	0.00002
	C0	0.00007	0.00007	0.00007
	C0	0.00043	0.00053	0.00089

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7R	(A1 * B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00023	0.00024	0.00024
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00023	0.00024	0.00024
	(A1 * !B0 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7R	(A1 * B0 * C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * C0 * Y)	0.00012	0.00013	0.00013
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7R	(A0 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00018	0.00019	0.00019
	(A0 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00018	0.00019	0.00019
	(!A0 * B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7R	(A0 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * !B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00006	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7R	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00019	0.00020	0.00020
	(!A1 * C0 * Y)	-0.00011	-0.00010	-0.00009
	(!A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * C0 * Y)	-0.00011	-0.00010	-0.00009
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00018	0.00018	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7R	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * C0 * Y)	0.00011	0.00011	0.00011
	(!A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00018	-0.00018	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00028	0.00028	0.00028

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1H7R	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00028	-0.00028	-0.00027

AO211X1P4H7R

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

Cell Description

Y=(A0 & A1)B0C0

Truth Table

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

Footprint

Cell Name	Area
AO211X1P4H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X1P4H7R	0.00070	0.00069	0.00067	0.00076	0.06577

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X1P4H7R	0.00000	0.27110	0.49497

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X1P4H7R	A0->Y (RR)	0.05079	0.19972	0.55986
	A1->Y (RR)	0.04843	0.19704	0.55375
	B0->Y (RR)	0.03138	0.17407	0.51776
	C0->Y (RR)	0.03054	0.17138	0.51214

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X1P4H7R	A0->Y (FF)	0.08780	0.21622	0.51664
	A1->Y (FF)	0.08056	0.20747	0.50584
	B0->Y (FF)	0.07937	0.21236	0.52833
	C0->Y (FF)	0.07594	0.20990	0.52749

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X1P4H7R	A0	0.00041	0.00047	0.00063
	A0	0.00008	0.00009	0.00009
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00155	0.00161	0.00177
	A1	0.00042	0.00050	0.00077
	A1	0.00008	0.00008	0.00008
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00139	0.00148	0.00175
	B0	0.00040	0.00050	0.00081
	B0	0.00003	0.00003	0.00003
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00129	0.00139	0.00169
	C0	0.00041	0.00051	0.00085
	C0	-0.00001	-0.00001	-0.00000
	C0	-0.00003	-0.00003	-0.00003
	C0	0.00122	0.00133	0.00166

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X1P4H7R	A0	0.00173	0.00177	0.00192
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00007	0.00007	0.00007
	A0	0.00054	0.00058	0.00074
	A1	0.00161	0.00166	0.00182
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00003	0.00003	0.00003
	A1	0.00057	0.00062	0.00079
	B0	0.00141	0.00148	0.00172
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00007	0.00007	0.00007
	B0	0.00052	0.00059	0.00085
	C0	0.00129	0.00139	0.00175
	C0	0.00000	0.00001	0.00004
	C0	0.00006	0.00007	0.00007
	C0	0.00048	0.00058	0.00096

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7R	(A1 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00023	0.00024	0.00024
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00023	0.00024	0.00024
	(A1 * !B0 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7R	(A1 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * !C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7R	(A0 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00018	0.00019	0.00019
	(A0 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00018	0.00019	0.00019
	(A0 * !B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7R	(A0 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * !B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * B0 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7R	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00019	0.00019	0.00020
	(!A1 * C0 * Y)	-0.00011	-0.00010	-0.00009
	(!A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * C0 * Y)	-0.00011	-0.00010	-0.00009
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00018	0.00018	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7R	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * C0 * Y)	0.00011	0.00011	0.00011
	(!A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00018	-0.00018	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00028	0.00028	0.00028

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X1P4H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00028	-0.00028	-0.00028

AO211X2H7R

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

Cell Description

Y=(A0 & A1)B0C0

Truth Table

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

Footprint

Cell Name	Area
AO211X2H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X2H7R	0.00068	0.00068	0.00065	0.00074	0.08508

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X2H7R	0.00000	0.33457	0.51149

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X2H7R	A0->Y (RR)	0.05507	0.20780	0.57567
	A1->Y (RR)	0.05370	0.20632	0.57084
	B0->Y (RR)	0.03410	0.18099	0.53291
	C0->Y (RR)	0.03365	0.17889	0.52771

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X2H7R	A0->Y (FF)	0.09582	0.22863	0.53377
	A1->Y (FF)	0.09100	0.22186	0.52430
	B0->Y (FF)	0.08933	0.22700	0.54850
	C0->Y (FF)	0.08707	0.22580	0.55037

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X2H7R	A0	0.00064	0.00071	0.00093
	A0	0.00008	0.00008	0.00008
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00170	0.00178	0.00200
	A1	0.00064	0.00073	0.00108
	A1	0.00008	0.00008	0.00008
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00160	0.00169	0.00205
	B0	0.00062	0.00074	0.00110
	B0	0.00002	0.00002	0.00002
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00144	0.00159	0.00195
	C0	0.00065	0.00077	0.00115
	C0	-0.00002	-0.00002	0.00000
	C0	-0.00002	-0.00002	-0.00002
	C0	0.00141	0.00152	0.00190

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X2H7R	A0	0.00195	0.00201	0.00224
	A0	-0.00008	-0.00008	-0.00007
	A0	0.00006	0.00006	0.00006
	A0	0.00084	0.00089	0.00113
	A1	0.00187	0.00192	0.00215
	A1	-0.00008	-0.00008	-0.00007
	A1	0.00002	0.00002	0.00003
	A1	0.00083	0.00090	0.00113
	B0	0.00167	0.00176	0.00209
	B0	-0.00002	-0.00002	0.00001
	B0	0.00006	0.00006	0.00006
	B0	0.00082	0.00090	0.00124
	C0	0.00156	0.00167	0.00214
	C0	0.00002	0.00002	0.00004
	C0	0.00006	0.00006	0.00006
	C0	0.00081	0.00091	0.00140

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7R	(A1 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00021	0.00021	0.00021
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7R	(A1 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00021	-0.00020	-0.00020
	(A1 * B0 * !C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00021	-0.00020	-0.00020
	(A1 * !B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7R	(A0 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00020	0.00021	0.00021
	(A0 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A0 * B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7R	(A0 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * !C0 * Y)	0.00010	0.00010	0.00011
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * B0 * !C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B0 * C0 * Y)	0.00013	0.00013	0.00014
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7R	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00018	0.00018	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7R	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00018	-0.00018	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7R	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00026	0.00026	0.00027
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00026	0.00026	0.00027
	(!A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00026	0.00026	0.00027

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X2H7R	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00027	-0.00026	-0.00026
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00027	-0.00026	-0.00026

AO211X3H7R

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

Cell Description

Y=(A0 & A1)B0C0

Truth Table

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

Footprint

Cell Name	Area
AO211X3H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X3H7R	0.00076	0.00077	0.00074	0.00083	0.12056

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X3H7R	0.00000	0.45098	0.65991

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X3H7R	A0->Y (RR)	0.04943	0.20188	0.56812
	A1->Y (RR)	0.04803	0.19989	0.56205
	B0->Y (RR)	0.03058	0.17655	0.52693
	C0->Y (RR)	0.02989	0.17426	0.52144

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X3H7R	A0->Y (FF)	0.08821	0.22126	0.52631
	A1->Y (FF)	0.08355	0.21455	0.51704
	B0->Y (FF)	0.08245	0.22028	0.54084
	C0->Y (FF)	0.07947	0.21809	0.54085

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X3H7R	A0	0.00078	0.00087	0.00116
	A0	0.00009	0.00009	0.00009
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00202	0.00210	0.00239
	A1	0.00078	0.00089	0.00137
	A1	0.00009	0.00009	0.00009
	A1	-0.00002	-0.00002	0.00001
	A1	0.00185	0.00199	0.00246
	B0	0.00076	0.00091	0.00140
	B0	0.00002	0.00002	0.00004
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00173	0.00187	0.00237
	C0	0.00079	0.00094	0.00146
	C0	-0.00004	-0.00003	-0.00002
	C0	-0.00002	-0.00002	-0.00002
	C0	0.00163	0.00178	0.00230

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X3H7R	A0	0.00227	0.00235	0.00267
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00007	0.00007	0.00007
	A0	0.00099	0.00106	0.00139
	A1	0.00216	0.00223	0.00256
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00002	0.00003	0.00003
	A1	0.00099	0.00107	0.00140
	B0	0.00196	0.00205	0.00251
	B0	-0.00002	-0.00002	-0.00000
	B0	0.00007	0.00007	0.00007
	B0	0.00098	0.00107	0.00154
	C0	0.00181	0.00194	0.00259
	C0	0.00002	0.00003	0.00006
	C0	0.00007	0.00007	0.00007
	C0	0.00096	0.00110	0.00176

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7R	(A1 * B0 * C0 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00023	0.00023	0.00023
	(A1 * B0 * !C0 * Y)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * C0 * Y)	-0.00011	-0.00010	-0.00007
	(A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7R	(A1 * B0 * C0 * Y)	0.00011	0.00011	0.00012
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(A1 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00023	-0.00023	-0.00022
	(A1 * !B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * B0 * Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B0 * !C0 * !Y)	0.00017	0.00018	0.00018
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7R	(A0 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00008
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00023	0.00023	0.00023
	(A0 * B0 * !C0 * Y)	-0.00012	-0.00011	-0.00008
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * C0 * Y)	-0.00012	-0.00010	-0.00008
	(A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * !C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !C0 * !Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7R	(A0 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * B0 * !C0 * Y)	0.00012	0.00013	0.00013
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * B0 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B0 * !C0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7R	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * C0 * Y)	0.00000	0.00001	0.00000
	(A0 * A1 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00021	0.00021	0.00022
	(!A1 * C0 * Y)	-0.00014	-0.00013	-0.00011
	(!A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * C0 * Y)	-0.00014	-0.00013	-0.00011
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00020	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7R	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00005	0.00006	0.00006
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00020	-0.00020	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00029	0.00030	0.00030
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * Y)	0.00000	0.00001	0.00000
	(A0 * A1 * !B0 * Y)	0.00029	0.00030	0.00030
	(!A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00029	0.00030	0.00030

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X3H7R	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	-0.00030	-0.00030	-0.00029

AO211X4H7R

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

Cell Description

Y=(A0 & A1)B0C0

Truth Table

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

Footprint

Cell Name	Area
AO211X4H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X4H7R	0.00086	0.00087	0.00083	0.00094	0.15468

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X4H7R	0.00000	0.56532	0.80334

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X4H7R	A0->Y (RR)	0.04849	0.20128	0.56766
	A1->Y (RR)	0.04701	0.19904	0.56112
	B0->Y (RR)	0.02996	0.17606	0.52641
	C0->Y (RR)	0.02919	0.17372	0.52124

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X4H7R	A0->Y (FF)	0.08834	0.22196	0.52726
	A1->Y (FF)	0.08350	0.21510	0.51762
	B0->Y (FF)	0.08252	0.22099	0.54198
	C0->Y (FF)	0.07926	0.21837	0.54116

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X4H7R	A0	0.00102	0.00113	0.00149
	A0	0.00011	0.00011	0.00011
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00243	0.00254	0.00290
	A1	0.00101	0.00116	0.00176
	A1	0.00011	0.00011	0.00011
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00225	0.00240	0.00299
	B0	0.00100	0.00118	0.00180
	B0	0.00002	0.00002	0.00004
	B0	-0.00003	-0.00003	0.00003
	B0	0.00204	0.00228	0.00289
	C0	0.00104	0.00122	0.00187
	C0	-0.00005	-0.00005	-0.00004
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00198	0.00216	0.00281

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X4H7R	A0	0.00274	0.00284	0.00326
	A0	-0.00011	-0.00011	-0.00009
	A0	0.00008	0.00009	0.00009
	A0	0.00127	0.00137	0.00179
	A1	0.00261	0.00270	0.00312
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00002	0.00003	0.00003
	A1	0.00128	0.00139	0.00181
	B0	0.00238	0.00249	0.00308
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00008	0.00009	0.00009
	B0	0.00127	0.00138	0.00198
	C0	0.00216	0.00235	0.00318
	C0	0.00005	0.00005	0.00011
	C0	0.00008	0.00008	0.00009
	C0	0.00125	0.00141	0.00226

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7R	(A1 * B0 * C0 * Y)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00025	0.00025	0.00026
	(A1 * B0 * !C0 * Y)	-0.00014	-0.00012	-0.00010
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00026
	(A1 * !B0 * C0 * Y)	-0.00013	-0.00012	-0.00009
	(A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * C0 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7R	(A1 * B0 * C0 * Y)	0.00013	0.00014	0.00014
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00014
	(A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7R	(A0 * B0 * C0 * Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00024	0.00025	0.00025
	(A0 * B0 * !C0 * Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00024	0.00025	0.00025
	(A0 * !B0 * C0 * Y)	-0.00014	-0.00012	-0.00009
	(A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * B0 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * !C0 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * C0 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !C0 * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7R	(A0 * B0 * C0 * Y)	0.00014	0.00015	0.00015
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00022	-0.00022	-0.00020
	(!A0 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00022	-0.00022	-0.00020
	(!A0 * !B0 * !C0 * !Y)	0.00026	0.00026	0.00027
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7R	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * C0 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * C0 * Y)	-0.00016	-0.00015	-0.00013
	(!A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * C0 * Y)	0.00022	0.00023	0.00024
	(!A0 * A1 * C0 * Y)	-0.00016	-0.00015	-0.00013
	(!A0 * A1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	0.00022	0.00023	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7R	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00007	0.00007	0.00007
	(A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00022	-0.00022	-0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00032	0.00033	0.00033
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00033	0.00033	0.00033
	(!A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	0.00033	0.00033	0.00033

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X4H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * Y)	-0.00033	-0.00033	-0.00032
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00002	0.00003	0.00004
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * Y)	-0.00033	-0.00033	-0.00033
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00033	-0.00033	-0.00032

AO211X6H7R

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

Cell Description

Y=(A0 & A1)B0C0

Truth Table

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

Footprint

Cell Name	Area
AO211X6H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AO211X6H7R	0.00096	0.00100	0.00093	0.00108	0.23203

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO211X6H7R	0.00000	0.80329	0.99264

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X6H7R	A0->Y (RR)	0.05205	0.20773	0.57976
	A1->Y (RR)	0.05047	0.20562	0.57319
	B0->Y (RR)	0.03164	0.18036	0.53598
	C0->Y (RR)	0.03071	0.17788	0.53045

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO211X6H7R	A0->Y (FF)	0.09553	0.23306	0.54387
	A1->Y (FF)	0.09070	0.22635	0.53502
	B0->Y (FF)	0.08946	0.23159	0.55797
	C0->Y (FF)	0.08550	0.22834	0.55680

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X6H7R	A0	0.00162	0.00176	0.00233
	A0	0.00010	0.00011	0.00011
	A0	-0.00008	-0.00008	0.00003
	A0	0.00318	0.00337	0.00393
	A1	0.00161	0.00180	0.00272
	A1	0.00010	0.00011	0.00011
	A1	-0.00001	-0.00001	0.00011
	A1	0.00299	0.00322	0.00413
	B0	0.00158	0.00183	0.00272
	B0	0.00000	0.00000	0.00000
	B0	-0.00001	-0.00001	0.00006
	B0	0.00279	0.00305	0.00395
	C0	0.00163	0.00188	0.00281
	C0	-0.00008	-0.00008	-0.00005
	C0	-0.00001	-0.00001	-0.00000
	C0	0.00268	0.00293	0.00386

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO211X6H7R	A0	0.00364	0.00376	0.00447
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00008	0.00008	0.00008
	A0	0.00192	0.00207	0.00279
	A1	0.00346	0.00359	0.00429
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00001	0.00001	0.00002
	A1	0.00192	0.00208	0.00279
	B0	0.00314	0.00330	0.00425
	B0	0.00000	0.00000	0.00002
	B0	0.00008	0.00008	0.00008
	B0	0.00187	0.00204	0.00302
	C0	0.00289	0.00312	0.00443
	C0	0.00008	0.00008	0.00013
	C0	0.00008	0.00008	0.00008
	C0	0.00183	0.00206	0.00339

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7R	(A1 * B0 * C0 * Y)	-0.00017	-0.00015	-0.00012
	(A1 * B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00026	0.00026	0.00027
	(A1 * B0 * !C0 * Y)	-0.00017	-0.00015	-0.00011
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * C0 * Y)	-0.00017	-0.00014	-0.00011
	(A1 * !B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	0.00026	0.00026	0.00027
	(!A1 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7R	(A1 * B0 * C0 * Y)	0.00017	0.00017	0.00017
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B0 * C0 * Y)	0.00021	0.00022	0.00022
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B0 * !C0 * !Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7R	(A0 * B0 * C0 * Y)	-0.00018	-0.00016	-0.00012
	(A0 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00027	0.00027	0.00028
	(A0 * B0 * !C0 * Y)	-0.00018	-0.00016	-0.00012
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00027	0.00027	0.00028
	(A0 * !B0 * C0 * Y)	-0.00018	-0.00015	-0.00011
	(A0 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * !C0 * !Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7R	(A0 * B0 * C0 * Y)	0.00018	0.00018	0.00018
	(A0 * B0 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	0.00000
	(A0 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * C0 * Y)	0.00017	0.00017	0.00018
	(A0 * !B0 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * B0 * C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * C0 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * B0 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !B0 * !C0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * !Y)	-0.00007	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7R	(A0 * A1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * C0 * Y)	0.00027	0.00027	0.00028
	(A0 * A1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	-0.00006	-0.00005	-0.00005
	(A0 * A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * Y)	0.00026	0.00026	0.00026
	(!A1 * C0 * Y)	-0.00020	-0.00018	-0.00016
	(!A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * Y)	0.00024	0.00025	0.00027
	(!A0 * A1 * C0 * Y)	-0.00020	-0.00018	-0.00016
	(!A0 * A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	0.00024	0.00025	0.00027

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7R	(A0 * A1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00008	0.00008	0.00008
	(A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * Y)	0.00005	0.00006	0.00006
	(A0 * A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00024	-0.00024	-0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00038	0.00039	0.00039
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00038	0.00039	0.00039
	(!A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00038	0.00039	0.00039

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

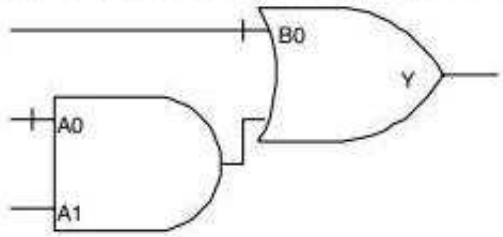
Cell Name	When	Power(pJ)		
		min	avg	max
AO211X6H7R	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * Y)	-0.00039	-0.00039	-0.00038
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00039	-0.00039	-0.00038
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	0.00003	0.00003	0.00004
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	-0.00039	-0.00039	-0.00038

AO21X0P5H7R

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X0P5H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X0P5H7R	0.00063	0.00066	0.00075	0.04260

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X0P5H7R	0.00000	0.21275	0.32734

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X0P5H7R	A0->Y (RR)	0.04514	0.18751	0.53466
	A1->Y (RR)	0.04323	0.18477	0.52804
	B0->Y (RR)	0.03009	0.16643	0.49957

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X0P5H7R	A0->Y (FF)	0.05528	0.17484	0.46179
	A1->Y (FF)	0.05142	0.16841	0.45280
	B0->Y (FF)	0.05045	0.17026	0.46159

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X0P5H7R	A0	0.00031	0.00038	0.00055
	A0	0.00006	0.00006	0.00006
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00122	0.00129	0.00146
	A1	0.00032	0.00041	0.00068
	A1	0.00006	0.00006	0.00006
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00106	0.00116	0.00143
	B0	0.00030	0.00042	0.00080
	B0	-0.00000	0.00000	0.00000
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00098	0.00110	0.00144

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X0P5H7R	A0	0.00131	0.00137	0.00154
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00006	0.00006	0.00006
	A0	0.00038	0.00044	0.00060
	A1	0.00118	0.00126	0.00146
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00002	0.00002	0.00002
	A1	0.00041	0.00047	0.00069
	B0	0.00104	0.00115	0.00149
	B0	-0.00000	0.00000	0.00001
	B0	0.00006	0.00006	0.00006
	B0	0.00036	0.00048	0.00088

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7R	(A1 * B0 * Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00019	0.00020	0.00021
	(!A1 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	0.00018	0.00018	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7R	(A1 * B0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7R	(A0 * B0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7R	(A0 * B0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * Y)	0.00012	0.00013	0.00013
	(!A0 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7R	(A0 * A1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00026	0.00026	0.00026

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

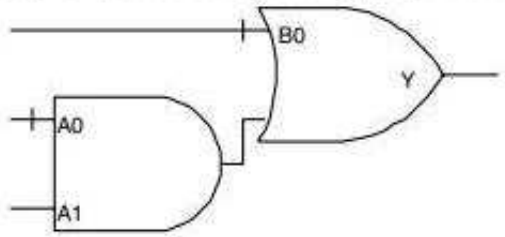
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P5H7R	(A0 * A1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00026	-0.00026	-0.00026

AO21X0P7H7R

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X0P7H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X0P7H7R	0.00064	0.00066	0.00075	0.04829

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X0P7H7R	0.00000	0.22641	0.33430

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X0P7H7R	A0->Y (RR)	0.04464	0.18755	0.53584
	A1->Y (RR)	0.04268	0.18487	0.52917
	B0->Y (RR)	0.02932	0.16620	0.50079

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X0P7H7R	A0->Y (FF)	0.05504	0.17522	0.46316
	A1->Y (FF)	0.05119	0.16881	0.45366
	B0->Y (FF)	0.05018	0.17066	0.46267

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X0P7H7R	A0	0.00034	0.00041	0.00060
	A0	0.00006	0.00006	0.00006
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00124	0.00131	0.00148
	A1	0.00035	0.00044	0.00072
	A1	0.00005	0.00006	0.00006
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00108	0.00118	0.00146
	B0	0.00032	0.00044	0.00082
	B0	-0.00000	-0.00000	0.00000
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00100	0.00112	0.00147

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X0P7H7R	A0	0.00133	0.00139	0.00156
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00005	0.00006	0.00006
	A0	0.00040	0.00046	0.00064
	A1	0.00121	0.00128	0.00148
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00002	0.00002	0.00002
	A1	0.00043	0.00050	0.00071
	B0	0.00106	0.00117	0.00152
	B0	0.00000	0.00000	0.00001
	B0	0.00005	0.00005	0.00005
	B0	0.00038	0.00051	0.00091

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7R	(A1 * B0 * Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00019	0.00020	0.00021
	(!A1 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	0.00018	0.00018	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7R	(A1 * B0 * Y)	0.00011	0.00011	0.00012
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7R	(A0 * B0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7R	(A0 * B0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * Y)	0.00012	0.00013	0.00013
	(!A0 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7R	(A0 * A1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00026	0.00026	0.00026

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

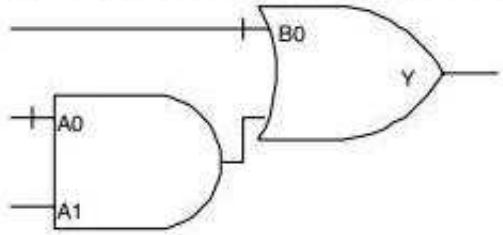
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X0P7H7R	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00026	-0.00026	-0.00026

AO21X1H7R

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X1H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X1H7R	0.00063	0.00065	0.00073	0.05760

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X1H7R	0.00000	0.24566	0.34525

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X1H7R	A0->Y (RR)	0.04394	0.18770	0.53741
	A1->Y (RR)	0.04197	0.18507	0.53089
	B0->Y (RR)	0.02838	0.16603	0.50177

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X1H7R	A0->Y (FF)	0.05489	0.17764	0.47105
	A1->Y (FF)	0.05107	0.17125	0.46210
	B0->Y (FF)	0.04983	0.17303	0.47039

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X1H7R	A0	0.00039	0.00046	0.00066
	A0	0.00005	0.00005	0.00005
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00127	0.00135	0.00152
	A1	0.00039	0.00049	0.00078
	A1	0.00005	0.00005	0.00005
	A1	-0.00001	-0.00001	0.00002
	A1	0.00112	0.00121	0.00151
	B0	0.00037	0.00050	0.00088
	B0	-0.00001	-0.00001	-0.00001
	B0	-0.00001	-0.00001	-0.00000
	B0	0.00103	0.00115	0.00151

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X1H7R	A0	0.00135	0.00142	0.00160
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00005	0.00005	0.00005
	A0	0.00044	0.00051	0.00069
	A1	0.00123	0.00130	0.00152
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00001	0.00001	0.00001
	A1	0.00047	0.00054	0.00076
	B0	0.00108	0.00119	0.00156
	B0	0.00001	0.00001	0.00001
	B0	0.00005	0.00005	0.00005
	B0	0.00042	0.00055	0.00096

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7R	(A1 * B0 * Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00019	0.00020	0.00021
	(!A1 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	0.00018	0.00018	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7R	(A1 * B0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7R	(A0 * B0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00006	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7R	(A0 * B0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * B0 * Y)	0.00012	0.00013	0.00013
	(!A0 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7R	(A0 * A1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00026	0.00026	0.00026

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

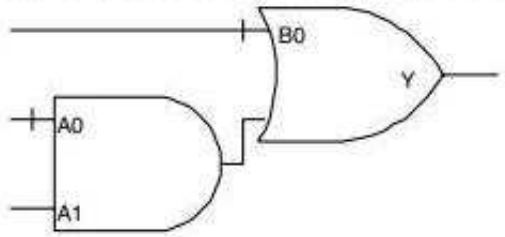
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1H7R	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00026	-0.00026	-0.00025

AO21X1P4H7R

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X1P4H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X1P4H7R	0.00063	0.00065	0.00075	0.06575

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X1P4H7R	0.00000	0.26426	0.35480

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X1P4H7R	A0->Y (RR)	0.04381	0.18837	0.53953
	A1->Y (RR)	0.04187	0.18578	0.53305
	B0->Y (RR)	0.02802	0.16643	0.50347

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X1P4H7R	A0->Y (FF)	0.05508	0.17865	0.47310
	A1->Y (FF)	0.05127	0.17230	0.46375
	B0->Y (FF)	0.05027	0.17436	0.47320

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X1P4H7R	A0	0.00042	0.00049	0.00069
	A0	0.00004	0.00005	0.00005
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00130	0.00138	0.00157
	A1	0.00043	0.00052	0.00083
	A1	0.00004	0.00005	0.00005
	A1	-0.00001	-0.00001	0.00001
	A1	0.00113	0.00124	0.00155
	B0	0.00040	0.00053	0.00092
	B0	-0.00001	-0.00001	-0.00000
	B0	-0.00001	-0.00001	0.00000
	B0	0.00106	0.00119	0.00156

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X1P4H7R	A0	0.00138	0.00145	0.00165
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00005	0.00005	0.00005
	A0	0.00048	0.00054	0.00075
	A1	0.00126	0.00134	0.00156
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00001	0.00001	0.00001
	A1	0.00051	0.00058	0.00081
	B0	0.00111	0.00123	0.00161
	B0	0.00001	0.00001	0.00002
	B0	0.00005	0.00005	0.00005
	B0	0.00046	0.00059	0.00101

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7R	(A1 * B0 * Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00019	0.00020	0.00021
	(!A1 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	0.00018	0.00018	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7R	(A1 * B0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7R	(A0 * B0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7R	(A0 * B0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * B0 * Y)	0.00012	0.00012	0.00013
	(!A0 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7R	(A0 * A1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00026	0.00026	0.00026

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

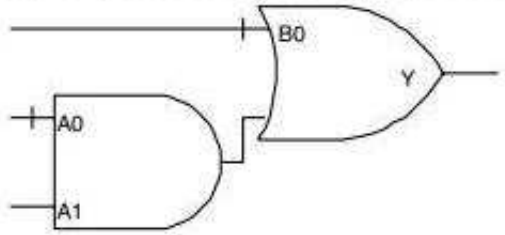
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X1P4H7R	(A0 * A1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00026	-0.00026	-0.00026

AO21X2H7R

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X2H7R	0.00063	0.00065	0.00075	0.08512

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X2H7R	0.00000	0.31691	0.37132

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X2H7R	A0->Y (RR)	0.04882	0.19787	0.55857
	A1->Y (RR)	0.04693	0.19569	0.55262
	B0->Y (RR)	0.03067	0.17364	0.51918

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X2H7R	A0->Y (FF)	0.06214	0.18952	0.48949
	A1->Y (FF)	0.05845	0.18345	0.48006
	B0->Y (FF)	0.05731	0.18571	0.49067

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X2H7R	A0	0.00062	0.00070	0.00094
	A0	0.00004	0.00004	0.00004
	A0	-0.00004	-0.00004	0.00000
	A0	0.00148	0.00157	0.00180
	A1	0.00062	0.00073	0.00111
	A1	0.00004	0.00004	0.00004
	A1	-0.00000	-0.00000	-0.00000
	A1	0.00133	0.00144	0.00182
	B0	0.00059	0.00073	0.00116
	B0	-0.00002	-0.00002	-0.00002
	B0	-0.00000	-0.00000	-0.00000
	B0	0.00125	0.00138	0.00181

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X2H7R	A0	0.00165	0.00172	0.00197
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00004	0.00004	0.00004
	A0	0.00076	0.00082	0.00108
	A1	0.00152	0.00160	0.00187
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00000	0.00000	0.00000
	A1	0.00078	0.00086	0.00113
	B0	0.00137	0.00149	0.00196
	B0	0.00002	0.00002	0.00003
	B0	0.00004	0.00004	0.00004
	B0	0.00072	0.00086	0.00134

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7R	(A1 * B0 * Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00019	0.00020	0.00021
	(!A1 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	0.00018	0.00018	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7R	(A1 * B0 * Y)	0.00011	0.00011	0.00012
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	-0.00018	-0.00018	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7R	(A0 * B0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7R	(A0 * B0 * Y)	0.00010	0.00010	0.00010
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * B0 * Y)	0.00012	0.00013	0.00013
	(!A0 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7R	(A0 * A1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00026	0.00027	0.00027

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

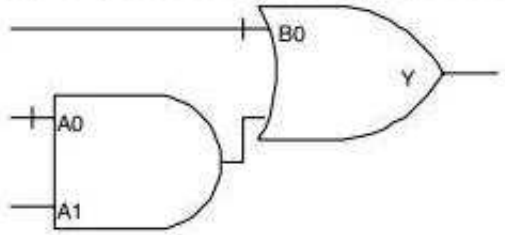
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X2H7R	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00027	-0.00026	-0.00026

AO21X3H7R

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X3H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X3H7R	0.00071	0.00073	0.00083	0.12051

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X3H7R	0.00000	0.42625	0.48475

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X3H7R	A0->Y (RR)	0.04401	0.19266	0.55210
	A1->Y (RR)	0.04204	0.19002	0.54453
	B0->Y (RR)	0.02743	0.16964	0.51376

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X3H7R	A0->Y (FF)	0.05716	0.18471	0.48422
	A1->Y (FF)	0.05336	0.17858	0.47520
	B0->Y (FF)	0.05249	0.18101	0.48455

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X3H7R	A0	0.00076	0.00087	0.00118
	A0	0.00004	0.00004	0.00005
	A0	-0.00005	-0.00005	0.00000
	A0	0.00170	0.00184	0.00215
	A1	0.00076	0.00090	0.00141
	A1	0.00004	0.00004	0.00004
	A1	0.00000	0.00000	0.00000
	A1	0.00155	0.00169	0.00220
	B0	0.00074	0.00092	0.00149
	B0	-0.00004	-0.00003	-0.00001
	B0	-0.00000	0.00000	0.00001
	B0	0.00146	0.00163	0.00221

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X3H7R	A0	0.00192	0.00200	0.00235
	A0	-0.00005	-0.00004	-0.00004
	A0	0.00005	0.00005	0.00005
	A0	0.00091	0.00099	0.00135
	A1	0.00177	0.00186	0.00224
	A1	-0.00004	-0.00004	-0.00004
	A1	-0.00000	-0.00000	0.00001
	A1	0.00093	0.00103	0.00141
	B0	0.00160	0.00174	0.00237
	B0	0.00001	0.00003	0.00004
	B0	0.00005	0.00005	0.00005
	B0	0.00087	0.00103	0.00168

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7R	(A1 * B0 * Y)	-0.00013	-0.00011	-0.00009
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00021	0.00022	0.00023
	(!A1 * B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	0.00019	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7R	(A1 * B0 * Y)	0.00013	0.00014	0.00014
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * !Y)	0.00017	0.00018	0.00018
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7R	(A0 * B0 * Y)	-0.00012	-0.00010	-0.00008
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * Y)	0.00020	0.00020	0.00021
	(!A0 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !Y)	0.00005	0.00005	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7R	(A0 * B0 * Y)	0.00012	0.00012	0.00012
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7R	(A0 * A1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * Y)	0.00029	0.00029	0.00029

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

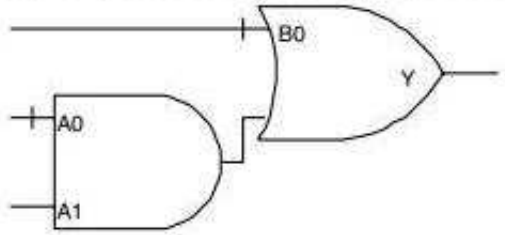
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X3H7R	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * Y)	-0.00029	-0.00029	-0.00029

AO21X4H7R

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X4H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X4H7R	0.00079	0.00088	0.00093	0.15459

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X4H7R	0.00000	0.53310	0.59389

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X4H7R	A0->Y (RR)	0.04200	0.19085	0.54938
	A1->Y (RR)	0.04055	0.18846	0.54203
	B0->Y (RR)	0.02626	0.16856	0.51264

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X4H7R	A0->Y (FF)	0.05553	0.18327	0.48227
	A1->Y (FF)	0.05226	0.17768	0.47394
	B0->Y (FF)	0.05126	0.18005	0.48290

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X4H7R	A0	0.00094	0.00106	0.00146
	A0	0.00005	0.00005	0.00005
	A0	-0.00006	-0.00005	-0.00005
	A0	0.00205	0.00218	0.00258
	A1	0.00094	0.00110	0.00175
	A1	0.00005	0.00005	0.00005
	A1	0.00000	0.00001	0.00001
	A1	0.00185	0.00202	0.00266
	B0	0.00093	0.00113	0.00184
	B0	-0.00005	-0.00005	-0.00001
	B0	0.00000	0.00001	0.00002
	B0	0.00173	0.00194	0.00266

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X4H7R	A0	0.00225	0.00236	0.00282
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00005	0.00005	0.00006
	A0	0.00110	0.00121	0.00167
	A1	0.00209	0.00221	0.00270
	A1	-0.00005	-0.00005	-0.00003
	A1	-0.00001	-0.00001	-0.00000
	A1	0.00114	0.00125	0.00174
	B0	0.00189	0.00208	0.00287
	B0	0.00001	0.00005	0.00007
	B0	0.00005	0.00005	0.00006
	B0	0.00108	0.00126	0.00209

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7R	(A1 * B0 * Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00024	0.00024	0.00026
	(!A1 * B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	0.00023	0.00023	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7R	(A1 * B0 * Y)	0.00015	0.00015	0.00015
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	-0.00022	-0.00021	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7R	(A0 * B0 * Y)	-0.00014	-0.00012	-0.00010
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * !Y)	0.00004	0.00005	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7R	(A0 * B0 * Y)	0.00014	0.00014	0.00014
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * Y)	0.00017	0.00018	0.00018
	(!A0 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * Y)	-0.00021	-0.00021	-0.00019
	(!A0 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !Y)	-0.00005	-0.00005	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7R	(A0 * A1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * Y)	0.00032	0.00032	0.00032

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

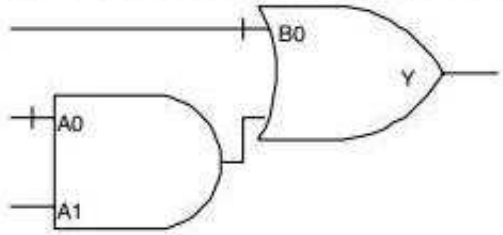
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X4H7R	(A0 * A1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * Y)	-0.00032	-0.00032	-0.00032

AO21X6H7R

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X6H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X6H7R	0.00088	0.00093	0.00104	0.23156

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X6H7R	0.00000	0.74594	0.83715

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X6H7R	A0->Y (RR)	0.04503	0.19668	0.56105
	A1->Y (RR)	0.04315	0.19413	0.55387
	B0->Y (RR)	0.02783	0.17294	0.52170

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X6H7R	A0->Y (FF)	0.05990	0.19104	0.49558
	A1->Y (FF)	0.05606	0.18499	0.48623
	B0->Y (FF)	0.05585	0.18835	0.49696

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X6H7R	A0	0.00150	0.00166	0.00229
	A0	0.00003	0.00003	0.00003
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00272	0.00288	0.00350
	A1	0.00150	0.00172	0.00269
	A1	0.00003	0.00003	0.00003
	A1	0.00002	0.00003	0.00003
	A1	0.00247	0.00269	0.00367
	B0	0.00146	0.00174	0.00276
	B0	-0.00008	-0.00008	-0.00005
	B0	0.00002	0.00003	0.00003
	B0	0.00234	0.00262	0.00364

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X6H7R	A0	0.00296	0.00310	0.00384
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00004	0.00004	0.00004
	A0	0.00171	0.00185	0.00259
	A1	0.00275	0.00291	0.00367
	A1	-0.00003	-0.00003	-0.00003
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00155	0.00187	0.00265
	B0	0.00255	0.00279	0.00398
	B0	0.00007	0.00008	0.00010
	B0	0.00004	0.00004	0.00004
	B0	0.00168	0.00191	0.00314

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7R	(A1 * B0 * Y)	-0.00017	-0.00015	-0.00012
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00026	0.00026	0.00028
	(!A1 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !Y)	0.00024	0.00025	0.00025

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7R	(A1 * B0 * Y)	0.00018	0.00018	0.00018
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00024	-0.00023	-0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7R	(A0 * B0 * Y)	-0.00016	-0.00014	-0.00011
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * Y)	0.00026	0.00026	0.00027
	(!A0 * B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !B0 * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7R	(A0 * B0 * Y)	0.00016	0.00016	0.00016
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * Y)	-0.00026	-0.00025	-0.00025
	(!A0 * B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B0 * !Y)	0.00026	0.00027	0.00027
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00004	-0.00003	-0.00002
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7R	(A0 * A1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * Y)	-0.00004	-0.00003	-0.00002
	(A0 * A1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * Y)	0.00036	0.00036	0.00036

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

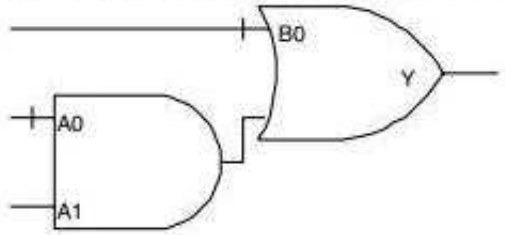
Cell Name	When	Power(pJ)		
		min	avg	max
AO21X6H7R	(A0 * A1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * Y)	0.00002	0.00004	0.00004
	(A0 * A1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * Y)	-0.00036	-0.00036	-0.00036

AO21X8H7R

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

Cell Description

The AO21 cell provides the logical OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AO21X8H7R	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AO21X8H7R	0.00155	0.00162	0.00174	0.30891

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO21X8H7R	0.00000	1.06620	1.18778

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X8H7R	A0->Y (RR)	0.04222	0.19220	0.55208
	A1->Y (RR)	0.03987	0.18921	0.54471
	B0->Y (RR)	0.02523	0.16895	0.51518

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO21X8H7R	A0->Y (FF)	0.05613	0.18516	0.48573
	A1->Y (FF)	0.05135	0.17797	0.47499
	B0->Y (FF)	0.05096	0.18145	0.48644

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X8H7R	A0	0.00186	0.00210	0.00295
	A0	0.00009	0.00009	0.00009
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00417	0.00440	0.00525
	A1	0.00186	0.00218	0.00356
	A1	0.00009	0.00009	0.00009
	A1	0.00001	0.00001	0.00009
	A1	0.00361	0.00400	0.00538
	B0	0.00186	0.00228	0.00384
	B0	-0.00010	-0.00010	-0.00007
	B0	0.00001	0.00001	0.00001
	B0	0.00356	0.00398	0.00554

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO21X8H7R	A0	0.00465	0.00487	0.00586
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00010	0.00011	0.00011
	A0	0.00231	0.00252	0.00352
	A1	0.00425	0.00449	0.00553
	A1	-0.00009	-0.00009	-0.00007
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00233	0.00258	0.00363
	B0	0.00388	0.00424	0.00592
	B0	0.00009	0.00010	0.00013
	B0	0.00010	0.00010	0.00011
	B0	0.00223	0.00260	0.00434

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7R	(A1 * B0 * Y)	-0.00028	-0.00024	-0.00019
	(A1 * B0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * Y)	0.00052	0.00053	0.00054
	(!A1 * B0 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * Y)	0.00046	0.00046	0.00047
	(!A1 * !B0 * !Y)	-0.00036	-0.00035	-0.00035
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00047	0.00048	0.00048

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7R	(A1 * B0 * Y)	0.00028	0.00028	0.00028
	(A1 * B0 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	-0.00052	-0.00052	-0.00052
	(!A1 * B0 * Y)	0.00035	0.00035	0.00036
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * Y)	-0.00046	-0.00044	-0.00042
	(!A1 * !B0 * !Y)	0.00036	0.00037	0.00040
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00046	-0.00043	-0.00038

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7R	(A0 * B0 * Y)	-0.00028	-0.00025	-0.00019
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * Y)	0.00051	0.00052	0.00055
	(!A0 * B0 * Y)	-0.00036	-0.00036	-0.00036
	(!A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * Y)	0.00044	0.00045	0.00045
	(!A0 * !B0 * !Y)	-0.00049	-0.00049	-0.00049
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00004	0.00005	0.00006
	(!A0 * !B0 * !Y)	0.00012	0.00012	0.00014

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7R	(A0 * B0 * Y)	0.00028	0.00029	0.00029
	(A0 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * Y)	-0.00051	-0.00051	-0.00050
	(!A0 * B0 * Y)	0.00036	0.00036	0.00036
	(!A0 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * Y)	-0.00045	-0.00043	-0.00040
	(!A0 * !B0 * !Y)	0.00049	0.00049	0.00050
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00006	-0.00005	-0.00004
	(!A0 * !B0 * !Y)	-0.00013	-0.00012	-0.00012

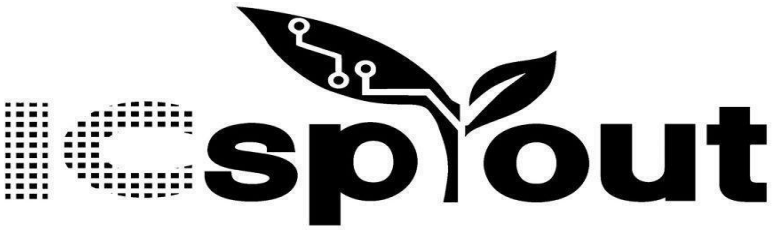
Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7R	(A0 * A1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * Y)	-0.00005	-0.00005	-0.00003
	(A0 * A1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * Y)	0.00065	0.00066	0.00066

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO21X8H7R	(A0 * A1 * Y)	0.00000	0.00000	0.00002
	(A0 * A1 * Y)	0.00003	0.00005	0.00006
	(A0 * A1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * Y)	-0.00066	-0.00065	-0.00065

AO221X0P5H7R



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

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X0P5H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X0P5H7R	0.00062	0.00064	0.00066	0.00072	0.00072	0.04257

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X0P5H7R	0.00000	0.22590	0.47053

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X0P5H7R	A0->Y (RR)	0.05760	0.20868	0.57405
	A1->Y (RR)	0.05589	0.20712	0.56991
	B0->Y (RR)	0.05376	0.20144	0.55948
	B1->Y (RR)	0.05238	0.19975	0.55533
	C0->Y (RR)	0.03436	0.17583	0.51827

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X0P5H7R	A0->Y (FF)	0.10162	0.23064	0.53116
	A1->Y (FF)	0.09645	0.22337	0.52134
	B0->Y (FF)	0.09546	0.22861	0.54175
	B1->Y (FF)	0.09053	0.22077	0.52993
	C0->Y (FF)	0.08212	0.21508	0.53078

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X0P5H7R	A0	0.00031	0.00036	0.00050
	A0	0.00013	0.00013	0.00014
	A0	-0.00008	-0.00008	-0.00006
	A0	0.00169	0.00174	0.00188
	A1	0.00032	0.00038	0.00062
	A1	0.00013	0.00013	0.00014
	A1	-0.00004	-0.00004	-0.00001
	A1	0.00157	0.00166	0.00189
	B0	0.00030	0.00036	0.00052
	B0	0.00004	0.00006	0.00008
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00145	0.00151	0.00165
	B1	0.00033	0.00041	0.00064
	B1	0.00006	0.00006	0.00006
	B1	-0.00004	-0.00004	-0.00003
	B1	0.00134	0.00142	0.00165
	C0	0.00029	0.00040	0.00072
	C0	-0.00000	0.00000	0.00001
	C0	-0.00004	-0.00004	-0.00003
	C0	0.00123	0.00133	0.00163

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X0P5H7R	A0	0.00198	0.00201	0.00210
	A0	-0.00014	-0.00013	-0.00013
	A0	0.00011	0.00011	0.00011
	A0	0.00053	0.00056	0.00066
	A1	0.00187	0.00191	0.00200
	A1	-0.00014	-0.00013	-0.00013
	A1	0.00007	0.00008	0.00008
	A1	0.00051	0.00056	0.00066
	B0	0.00168	0.00173	0.00186
	B0	-0.00006	-0.00006	-0.00004
	B0	0.00011	0.00011	0.00012
	B0	0.00052	0.00057	0.00072
	B1	0.00155	0.00160	0.00174
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00008	0.00008	0.00008
	B1	0.00052	0.00057	0.00073
	C0	0.00137	0.00145	0.00174
	C0	-0.00000	0.00000	0.00001
	C0	0.00011	0.00011	0.00011
	C0	0.00045	0.00055	0.00090

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7R	**(A1 * B0 * B1 * C0 * Y)**	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A1 * B0 * B1 * !C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00014	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7R	**(A1 * B0 * B1 * C0 * Y)**	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(A1 * B0 * B1 * !C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00018	-0.00018	-0.00017
	(A1 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00012	0.00013	0.00013
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B1 * !C0 * !Y)	0.00015	0.00016	0.00016
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00016	0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7R	**(A0 * B0 * B1 * C0 * Y)**	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * B0 * B1 * !C0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !B1 * C0 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * B1 * C0 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00018	0.00019	0.00019
	(!A0 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00006	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7R	**(A0 * B0 * B1 * C0 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7R	**(A0 * A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00017	0.00017	0.00017
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00004	-0.00003	-0.00004
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00016	0.00016	0.00016
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B1 * C0 * Y)	-0.00015	-0.00014	-0.00011
	(!A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * Y)	0.00015	0.00016	0.00017
	(!A1 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B1 * C0 * Y)	-0.00015	-0.00014	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00015	0.00016	0.00017
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7R	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00016	-0.00015	-0.00015
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00016	-0.00016	-0.00015
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00017	0.00018	0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00014	-0.00013	-0.00013
	(!A1 * B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7R	**(A0 * A1 * B0 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * Y)	0.00016	0.00017	0.00017
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P5H7R	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X0P5H7R	(A1 * B0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00025	0.00025	0.00025

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X0P5H7R	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00025	-0.00025	-0.00025

AO221X0P7H7R

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

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X0P7H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X0P7H7R	0.00062	0.00064	0.00066	0.00072	0.00072	0.04832

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X0P7H7R	0.00000	0.24057	0.47749

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X0P7H7R	A0->Y (RR)	0.05695	0.20880	0.57571
	A1->Y (RR)	0.05524	0.20729	0.57154
	B0->Y (RR)	0.05313	0.20159	0.56153
	B1->Y (RR)	0.05175	0.19993	0.55630
	C0->Y (RR)	0.03360	0.17576	0.51947

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X0P7H7R	A0->Y (FF)	0.10140	0.23136	0.53325
	A1->Y (FF)	0.09628	0.22410	0.52316
	B0->Y (FF)	0.09523	0.22937	0.54367
	B1->Y (FF)	0.09035	0.22156	0.53166
	C0->Y (FF)	0.08194	0.21596	0.53352

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X0P7H7R	A0	0.00034	0.00039	0.00054
	A0	0.00013	0.00014	0.00014
	A0	-0.00008	-0.00007	-0.00005
	A0	0.00171	0.00176	0.00191
	A1	0.00034	0.00041	0.00066
	A1	0.00013	0.00013	0.00014
	A1	-0.00004	-0.00003	-0.00001
	A1	0.00161	0.00168	0.00192
	B0	0.00033	0.00039	0.00056
	B0	0.00005	0.00006	0.00007
	B0	-0.00008	-0.00007	-0.00005
	B0	0.00147	0.00153	0.00168
	B1	0.00036	0.00044	0.00068
	B1	0.00006	0.00006	0.00006
	B1	-0.00004	-0.00003	-0.00001
	B1	0.00136	0.00144	0.00168
	C0	0.00032	0.00043	0.00079
	C0	-0.00000	-0.00000	0.00000
	C0	-0.00004	-0.00004	-0.00003
	C0	0.00126	0.00135	0.00166

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X0P7H7R	A0	0.00201	0.00204	0.00214
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00011	0.00011	0.00011
	A0	0.00056	0.00060	0.00069
	A1	0.00189	0.00194	0.00203
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00007	0.00007	0.00008
	A1	0.00055	0.00059	0.00070
	B0	0.00171	0.00175	0.00190
	B0	-0.00006	-0.00006	-0.00004
	B0	0.00011	0.00011	0.00012
	B0	0.00055	0.00060	0.00076
	B1	0.00158	0.00163	0.00178
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00007	0.00007	0.00008
	B1	0.00054	0.00060	0.00077
	C0	0.00139	0.00148	0.00178
	C0	0.00000	0.00000	0.00001
	C0	0.00011	0.00011	0.00011
	C0	0.00048	0.00058	0.00094

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7R	**(A1 * B0 * B1 * C0 * Y)**	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A1 * B0 * B1 * !C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00014	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7R	**(A1 * B0 * B1 * C0 * Y)**	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(A1 * B0 * B1 * !C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00018	-0.00018	-0.00017
	(A1 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B1 * !C0 * !Y)	0.00015	0.00016	0.00016
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00016	0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00012

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7R	**(A0 * B0 * B1 * C0 * Y)**	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * B0 * B1 * !C0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !B1 * C0 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * B1 * C0 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00018	0.00019	0.00019
	(!A0 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00006	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7R	**(A0 * B0 * B1 * C0 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7R	**(A0 * A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00017	0.00017	0.00017
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00004	-0.00003	-0.00004
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00016	0.00016	0.00016
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00016	0.00016	0.00017
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B1 * C0 * Y)	-0.00015	-0.00014	-0.00011
	(!A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * Y)	0.00015	0.00016	0.00017
	(!A1 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B1 * C0 * Y)	-0.00015	-0.00014	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00015	0.00016	0.00017
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7R	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00016	-0.00015	-0.00015
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00016	-0.00016	-0.00015
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00017	0.00018	0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00014	-0.00013	-0.00013
	(!A1 * B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7R	**(A0 * A1 * B0 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * Y)	0.00018	0.00019	0.00019
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * Y)	0.00016	0.00017	0.00017
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X0P7H7R	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002

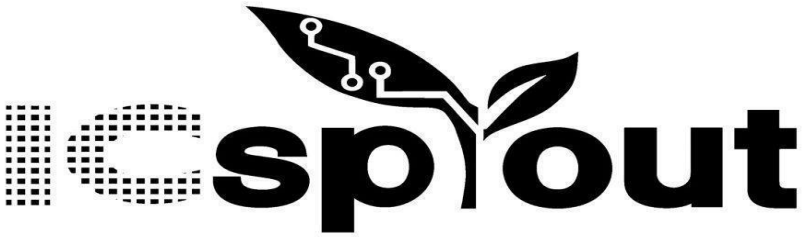
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X0P7H7R	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00025	0.00025	0.00025

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X0P7H7R	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00025	-0.00025	-0.00025

AO221X1H7R



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

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X1H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X1H7R	0.00062	0.00064	0.00066	0.00072	0.00072	0.05759

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X1H7R	0.00000	0.26106	0.48844

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X1H7R	A0->Y (RR)	0.05628	0.20910	0.57816
	A1->Y (RR)	0.05457	0.20764	0.57362
	B0->Y (RR)	0.05248	0.20192	0.56354
	B1->Y (RR)	0.05108	0.20028	0.55819
	C0->Y (RR)	0.03273	0.17574	0.52111

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X1H7R	A0->Y (FF)	0.10173	0.23463	0.54203
	A1->Y (FF)	0.09665	0.22740	0.53189
	B0->Y (FF)	0.09556	0.23278	0.55316
	B1->Y (FF)	0.09072	0.22498	0.54116
	C0->Y (FF)	0.08230	0.21946	0.54282

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X1H7R	A0	0.00038	0.00044	0.00060
	A0	0.00012	0.00013	0.00015
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00174	0.00180	0.00196
	A1	0.00039	0.00046	0.00072
	A1	0.00013	0.00013	0.00013
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00164	0.00171	0.00198
	B0	0.00037	0.00043	0.00061
	B0	0.00005	0.00005	0.00007
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00151	0.00157	0.00173
	B1	0.00040	0.00048	0.00074
	B1	0.00005	0.00005	0.00006
	B1	-0.00003	-0.00003	-0.00000
	B1	0.00140	0.00147	0.00174
	C0	0.00037	0.00047	0.00081
	C0	-0.00001	-0.00001	0.00000
	C0	-0.00004	-0.00003	-0.00003
	C0	0.00128	0.00139	0.00171

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X1H7R	A0	0.00204	0.00208	0.00219
	A0	-0.00015	-0.00013	-0.00012
	A0	0.00011	0.00011	0.00011
	A0	0.00061	0.00064	0.00075
	A1	0.00193	0.00197	0.00208
	A1	-0.00013	-0.00012	-0.00012
	A1	0.00007	0.00007	0.00008
	A1	0.00059	0.00063	0.00075
	B0	0.00174	0.00179	0.00196
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00011	0.00011	0.00011
	B0	0.00060	0.00064	0.00082
	B1	0.00162	0.00167	0.00183
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00007	0.00007	0.00007
	B1	0.00059	0.00064	0.00082
	C0	0.00143	0.00152	0.00185
	C0	0.00000	0.00001	0.00003
	C0	0.00011	0.00011	0.00011
	C0	0.00052	0.00063	0.00100

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7R	**(A1 * B0 * B1 * C0 * Y)**	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A1 * B0 * B1 * !C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7R	**(A1 * B0 * B1 * C0 * Y)**	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(A1 * B0 * B1 * !C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00018	-0.00018	-0.00017
	(A1 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B1 * !C0 * !Y)	0.00015	0.00016	0.00016
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00014	-0.00013	-0.00012
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00016	0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00012

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7R	**(A0 * B0 * B1 * C0 * Y)**	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * B0 * B1 * !C0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !B1 * C0 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * B1 * C0 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00018	0.00019	0.00019
	(!A0 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00006	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7R	**(A0 * B0 * B1 * C0 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7R	**(A0 * A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00017	0.00017	0.00017
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00016	0.00016	0.00016
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00016	0.00016	0.00017
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B1 * C0 * Y)	-0.00015	-0.00014	-0.00011
	(!A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * Y)	0.00015	0.00016	0.00017
	(!A1 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B1 * C0 * Y)	-0.00015	-0.00014	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00015	0.00016	0.00017
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7R	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00016	-0.00015	-0.00015
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00016	-0.00016	-0.00015
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00017	0.00018	0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00014	-0.00013	-0.00013
	(!A1 * B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7R	**(A0 * A1 * B0 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * Y)	0.00016	0.00017	0.00017
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1H7R	**(A0 * A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002

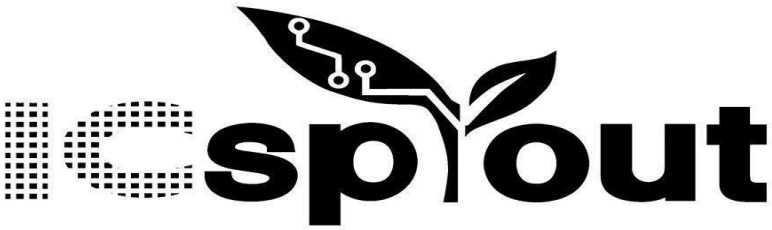
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X1H7R	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00025	0.00025	0.00025

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X1H7R	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00025	-0.00024	-0.00023

AO221X1P4H7R



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

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X1P4H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X1P4H7R	0.00063	0.00064	0.00066	0.00072	0.00073	0.06585

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X1P4H7R	0.00000	0.28100	0.49800

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X1P4H7R	A0->Y (RR)	0.05648	0.21046	0.58135
	A1->Y (RR)	0.05471	0.20906	0.57796
	B0->Y (RR)	0.05264	0.20332	0.56658
	B1->Y (RR)	0.05131	0.20185	0.56266
	C0->Y (RR)	0.03249	0.17663	0.52437

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X1P4H7R	A0->Y (FF)	0.10285	0.23716	0.54625
	A1->Y (FF)	0.09781	0.22995	0.53628
	B0->Y (FF)	0.09671	0.23539	0.55768
	B1->Y (FF)	0.09201	0.22780	0.54618
	C0->Y (FF)	0.08347	0.22214	0.54781

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X1P4H7R	A0	0.00042	0.00048	0.00065
	A0	0.00012	0.00013	0.00013
	A0	-0.00007	-0.00007	-0.00004
	A0	0.00177	0.00184	0.00201
	A1	0.00043	0.00050	0.00078
	A1	0.00012	0.00012	0.00013
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00166	0.00175	0.00203
	B0	0.00042	0.00048	0.00065
	B0	0.00003	0.00005	0.00005
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00154	0.00161	0.00178
	B1	0.00044	0.00052	0.00080
	B1	0.00004	0.00005	0.00005
	B1	-0.00003	-0.00003	-0.00001
	B1	0.00144	0.00151	0.00180
	C0	0.00040	0.00051	0.00086
	C0	-0.00001	-0.00001	0.00000
	C0	-0.00003	-0.00003	-0.00003
	C0	0.00133	0.00143	0.00176

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X1P4H7R	A0	0.00209	0.00213	0.00225
	A0	-0.00012	-0.00012	-0.00011
	A0	0.00010	0.00011	0.00011
	A0	0.00064	0.00069	0.00082
	A1	0.00198	0.00202	0.00215
	A1	-0.00013	-0.00012	-0.00012
	A1	0.00006	0.00007	0.00007
	A1	0.00064	0.00069	0.00082
	B0	0.00180	0.00184	0.00203
	B0	-0.00005	-0.00005	-0.00002
	B0	0.00010	0.00011	0.00011
	B0	0.00065	0.00070	0.00089
	B1	0.00165	0.00172	0.00191
	B1	-0.00005	-0.00005	-0.00003
	B1	0.00006	0.00007	0.00007
	B1	0.00064	0.00070	0.00089
	C0	0.00148	0.00157	0.00192
	C0	0.00001	0.00001	0.00003
	C0	0.00010	0.00010	0.00010
	C0	0.00057	0.00068	0.00106

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7R	**(A1 * B0 * B1 * C0 * Y)**	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A1 * B0 * B1 * !C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00016	0.00017	0.00017
	(!A1 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00014	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7R	**(A1 * B0 * B1 * C0 * Y)**	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(A1 * B0 * B1 * !C0 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00015
	(!A1 * !B1 * !C0 * !Y)	0.00015	0.00016	0.00016
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00012
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00016	0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00012

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7R	**(A0 * B0 * B1 * C0 * Y)**	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * B0 * B1 * !C0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !B1 * C0 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * B1 * C0 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00006	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7R	**(A0 * B0 * B1 * C0 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7R	**(A0 * A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00017	0.00017	0.00017
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00004	-0.00003	-0.00004
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00016	0.00016	0.00016
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00016	0.00016	0.00017
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B1 * C0 * Y)	-0.00015	-0.00014	-0.00011
	(!A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * Y)	0.00015	0.00016	0.00017
	(!A1 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B1 * C0 * Y)	-0.00015	-0.00014	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7R	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00016	-0.00016	-0.00015
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00016	-0.00016	-0.00015
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00017	0.00018	0.00018
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00013	-0.00012	-0.00011

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7R	**(A0 * A1 * B0 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X1P4H7R	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002

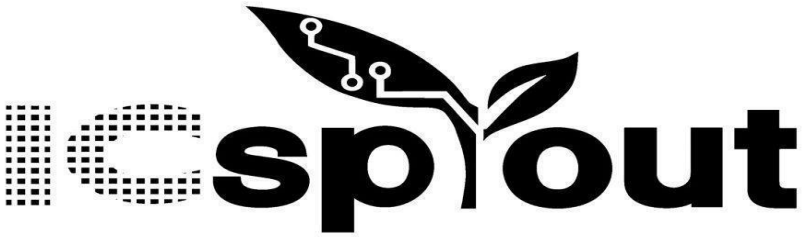
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X1P4H7R	(A1 * B0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00025	0.00025	0.00025

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X1P4H7R	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00025	-0.00025	-0.00025

AO221X2H7R



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

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X2H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X2H7R	0.00071	0.00073	0.00070	0.00071	0.00072	0.08499

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X2H7R	0.00000	0.33906	0.51452

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X2H7R	A0->Y (RR)	0.06273	0.22013	0.59744
	A1->Y (RR)	0.06119	0.21904	0.59445
	B0->Y (RR)	0.05805	0.21231	0.58257
	B1->Y (RR)	0.05632	0.21081	0.57917
	C0->Y (RR)	0.03541	0.18348	0.53845

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X2H7R	A0->Y (FF)	0.11510	0.25296	0.56510
	A1->Y (FF)	0.11038	0.24604	0.55551
	B0->Y (FF)	0.10754	0.25022	0.57771
	B1->Y (FF)	0.10189	0.24250	0.56644
	C0->Y (FF)	0.09444	0.23777	0.56951

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X2H7R	A0	0.00065	0.00072	0.00094
	A0	0.00012	0.00012	0.00012
	A0	-0.00006	-0.00006	-0.00002
	A0	0.00206	0.00214	0.00235
	A1	0.00065	0.00074	0.00110
	A1	0.00011	0.00011	0.00012
	A1	-0.00002	-0.00002	0.00001
	A1	0.00192	0.00201	0.00237
	B0	0.00066	0.00074	0.00096
	B0	0.00004	0.00004	0.00004
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00183	0.00190	0.00213
	B1	0.00067	0.00077	0.00113
	B1	0.00004	0.00004	0.00006
	B1	-0.00002	-0.00002	-0.00002
	B1	0.00167	0.00178	0.00215
	C0	0.00064	0.00076	0.00116
	C0	-0.00002	-0.00002	0.00000
	C0	-0.00002	-0.00002	-0.00002
	C0	0.00157	0.00169	0.00210

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X2H7R	A0	0.00241	0.00246	0.00265
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00010	0.00010	0.00011
	A0	0.00091	0.00096	0.00116
	A1	0.00229	0.00235	0.00254
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00005	0.00006	0.00006
	A1	0.00092	0.00099	0.00119
	B0	0.00207	0.00212	0.00241
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00009	0.00010	0.00010
	B0	0.00087	0.00093	0.00123
	B1	0.00194	0.00201	0.00230
	B1	-0.00004	-0.00004	-0.00002
	B1	0.00005	0.00006	0.00007
	B1	0.00090	0.00097	0.00127
	C0	0.00177	0.00187	0.00236
	C0	0.00000	0.00002	0.00004
	C0	0.00010	0.00010	0.00010
	C0	0.00085	0.00094	0.00144

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7R	**(A1 * B0 * B1 * C0 * Y)**	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00023	0.00023	0.00023
	(A1 * B0 * B1 * !C0 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(A1 * !B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * !B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * B1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7R	**(A1 * B0 * B1 * C0 * Y)**	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00023	-0.00023	-0.00022
	(A1 * B0 * B1 * !C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00010
	(A1 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00012	0.00013	0.00013
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00017	-0.00016	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7R	**(A0 * B0 * B1 * C0 * Y)**	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * Y)	0.00021	0.00021	0.00022
	(A0 * B0 * B1 * !C0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * Y)	0.00021	0.00021	0.00022
	(A0 * !B1 * C0 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * Y)	0.00021	0.00021	0.00022
	(A0 * !B0 * B1 * C0 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00019	0.00020	0.00020
	(!A0 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00019	0.00020	0.00020
	(!A0 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00005	0.00005	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7R	**(A0 * B0 * B1 * C0 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * B0 * B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * B0 * B1 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7R	**(A0 * A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00020	0.00021	0.00021
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * B1 * C0 * Y)	-0.00013	-0.00012	-0.00009
	(!A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * Y)	-0.00013	-0.00012	-0.00009
	(!A0 * A1 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7R	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00021	-0.00021	-0.00020
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * B1 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(!A0 * A1 * B1 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7R	**(A0 * A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00017	0.00017	0.00017
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00015	0.00016	0.00017
	(!A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00015	0.00016	0.00017
	(!A0 * A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X2H7R	**(A0 * A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * Y)	-0.00016	-0.00015	-0.00015
	(!A1 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X2H7R	(A1 * B0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00025	0.00026	0.00026
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00025	0.00026	0.00026
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00025	0.00026	0.00026
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00025	0.00025	0.00025

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X2H7R	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00026	-0.00025	-0.00025
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00025	-0.00025	-0.00025

AO221X3H7R

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

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X3H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X3H7R	0.00077	0.00080	0.00077	0.00080	0.00078	0.12045

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X3H7R	0.00000	0.45518	0.66400

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X3H7R	A0->Y (RR)	0.05572	0.21281	0.58835
	A1->Y (RR)	0.05426	0.21130	0.58357
	B0->Y (RR)	0.05165	0.20562	0.57418
	B1->Y (RR)	0.05009	0.20383	0.56989
	C0->Y (RR)	0.03131	0.17844	0.53165

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X3H7R	A0->Y (FF)	0.10544	0.24333	0.55515
	A1->Y (FF)	0.10086	0.23658	0.54582
	B0->Y (FF)	0.09841	0.24143	0.56805
	B1->Y (FF)	0.09359	0.23390	0.55658
	C0->Y (FF)	0.08621	0.22944	0.55947

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X3H7R	A0	0.00078	0.00086	0.00117
	A0	0.00014	0.00014	0.00015
	A0	-0.00007	-0.00007	-0.00003
	A0	0.00237	0.00248	0.00278
	A1	0.00078	0.00089	0.00138
	A1	0.00014	0.00014	0.00014
	A1	-0.00003	-0.00002	0.00002
	A1	0.00219	0.00234	0.00283
	B0	0.00079	0.00088	0.00120
	B0	0.00003	0.00004	0.00005
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00209	0.00220	0.00252
	B1	0.00081	0.00093	0.00143
	B1	0.00004	0.00004	0.00004
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00192	0.00206	0.00257
	C0	0.00077	0.00092	0.00147
	C0	-0.00004	-0.00003	-0.00001
	C0	-0.00003	-0.00003	-0.00001
	C0	0.00181	0.00196	0.00251

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X3H7R	A0	0.00278	0.00284	0.00313
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00012	0.00012	0.00012
	A0	0.00108	0.00114	0.00144
	A1	0.00264	0.00271	0.00300
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00007	0.00007	0.00008
	A1	0.00111	0.00118	0.00147
	B0	0.00240	0.00247	0.00289
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00011	0.00012	0.00012
	B0	0.00105	0.00113	0.00154
	B1	0.00225	0.00233	0.00273
	B1	-0.00004	-0.00004	-0.00003
	B1	0.00007	0.00007	0.00008
	B1	0.00106	0.00115	0.00157
	C0	0.00205	0.00218	0.00283
	C0	0.00001	0.00003	0.00006
	C0	0.00012	0.00012	0.00012
	C0	0.00101	0.00114	0.00181

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7R	**(A1 * B0 * B1 * C0 * Y)**	-0.00011	-0.00010	-0.00007
	(A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * B1 * !C0 * Y)	-0.00012	-0.00010	-0.00007
	(A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B1 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * Y)	0.00025	0.00025	0.00026
	(A1 * !B0 * B1 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7R	**(A1 * B0 * B1 * C0 * Y)**	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * B1 * !C0 * Y)	0.00011	0.00011	0.00012
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00025	-0.00025	-0.00024
	(A1 * !B1 * C0 * Y)	0.00011	0.00011	0.00011
	(A1 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B1 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * B1 * C0 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7R	**(A0 * B0 * B1 * C0 * Y)**	-0.00011	-0.00010	-0.00008
	(A0 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * C0 * Y)	0.00023	0.00024	0.00024
	(A0 * B0 * B1 * !C0 * Y)	-0.00011	-0.00010	-0.00007
	(A0 * B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00024	0.00024	0.00024
	(A0 * !B1 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * Y)	0.00023	0.00024	0.00024
	(A0 * !B0 * B1 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00023	0.00024	0.00024
	(!A0 * B0 * B1 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * !C0 * Y)	-0.00015	-0.00014	-0.00014
	(!A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !B0 * B1 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00005	0.00005	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7R	**(A0 * B0 * B1 * C0 * Y)**	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * B0 * B1 * !C0 * Y)	0.00010	0.00011	0.00011
	(A0 * B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00003
	(A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * !B1 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * !B0 * B1 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * B0 * B1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * B0 * B1 * !C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * B1 * C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7R	**(A0 * A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C0 * Y)	0.00021	0.00022	0.00022
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00020	0.00020	0.00021
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * B1 * C0 * Y)	-0.00017	-0.00014	-0.00011
	(!A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * Y)	0.00019	0.00020	0.00021
	(!A1 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * C0 * Y)	-0.00017	-0.00014	-0.00011
	(!A0 * A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00019	0.00020	0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7R	**(A0 * A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * B1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * B1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7R	**(A0 * A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00021	0.00022	0.00022
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00020	0.00020	0.00021
	(!A1 * B0 * C0 * Y)	-0.00014	-0.00012	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00014	-0.00012	-0.00009
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X3H7R	**(A0 * A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * C0 * Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003

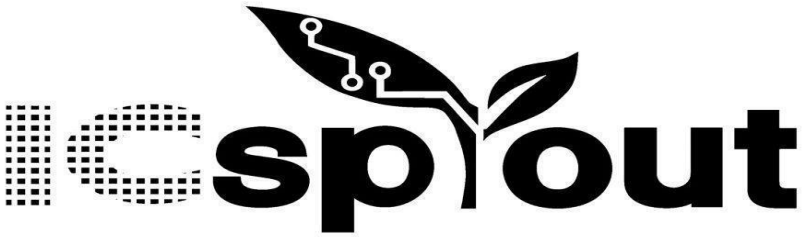
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X3H7R	(A1 * B0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * Y)	0.00000	0.00001	0.00000
	(A1 * B0 * B1 * Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00002	-0.00003	-0.00002
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00028	0.00028	0.00028

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X3H7R	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00028	-0.00028	-0.00027

AO221X4H7R



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

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	0
0	x	x	x	1	1
0	x	1	0	0	0
x	x	1	1	x	1
1	0	0	x	0	0
1	0	x	x	1	1
1	0	1	0	0	0
1	1	x	x	x	1

Footprint

Cell Name	Area
AO221X4H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
AO221X4H7R	0.00087	0.00090	0.00087	0.00087	0.00092	0.15477

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO221X4H7R	0.00000	0.56904	0.80851

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X4H7R	A0->Y (RR)	0.05322	0.20985	0.58415
	A1->Y (RR)	0.05143	0.20786	0.57829
	B0->Y (RR)	0.04931	0.20288	0.57032
	B1->Y (RR)	0.04755	0.20069	0.56469
	C0->Y (RR)	0.03013	0.17685	0.52897

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO221X4H7R	A0->Y (FF)	0.10264	0.23992	0.55065
	A1->Y (FF)	0.09723	0.23256	0.54088
	B0->Y (FF)	0.09579	0.23817	0.56341
	B1->Y (FF)	0.09024	0.23026	0.55178
	C0->Y (FF)	0.08427	0.22688	0.55500

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X4H7R	A0	0.00102	0.00113	0.00151
	A0	0.00017	0.00017	0.00017
	A0	-0.00009	-0.00008	-0.00004
	A0	0.00282	0.00295	0.00333
	A1	0.00103	0.00117	0.00179
	A1	0.00017	0.00017	0.00017
	A1	-0.00003	-0.00003	0.00001
	A1	0.00266	0.00280	0.00341
	B0	0.00104	0.00115	0.00154
	B0	0.00002	0.00005	0.00005
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00250	0.00263	0.00303
	B1	0.00105	0.00120	0.00183
	B1	0.00005	0.00005	0.00006
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00231	0.00246	0.00310
	C0	0.00103	0.00122	0.00190
	C0	-0.00005	-0.00005	0.00000
	C0	-0.00003	-0.00003	-0.00001
	C0	0.00220	0.00239	0.00308

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO221X4H7R	A0	0.00323	0.00331	0.00369
	A0	-0.00017	-0.00016	-0.00014
	A0	0.00013	0.00014	0.00015
	A0	0.00127	0.00139	0.00178
	A1	0.00305	0.00315	0.00353
	A1	-0.00017	-0.00016	-0.00016
	A1	0.00008	0.00009	0.00010
	A1	0.00130	0.00141	0.00179
	B0	0.00279	0.00288	0.00342
	B0	-0.00005	-0.00004	-0.00000
	B0	0.00014	0.00014	0.00015
	B0	0.00127	0.00137	0.00192
	B1	0.00260	0.00272	0.00325
	B1	-0.00005	-0.00005	-0.00002
	B1	0.00007	0.00009	0.00010
	B1	0.00131	0.00141	0.00196
	C0	0.00238	0.00254	0.00338
	C0	0.00000	0.00005	0.00010
	C0	0.00014	0.00014	0.00014
	C0	0.00121	0.00138	0.00223

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7R	**(A1 * B0 * B1 * C0 * Y)**	-0.00014	-0.00012	-0.00009
	(A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00027	0.00027	0.00028
	(A1 * B0 * B1 * !C0 * Y)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00027	0.00027	0.00028
	(A1 * !B1 * C0 * Y)	-0.00013	-0.00011	-0.00009
	(A1 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * Y)	0.00027	0.00027	0.00028
	(A1 * !B0 * B1 * C0 * Y)	-0.00013	-0.00011	-0.00009
	(A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00027	0.00027	0.00028
	(!A1 * B0 * B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00022

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7R	**(A1 * B0 * B1 * C0 * Y)**	0.00013	0.00013	0.00014
	(A1 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * B1 * !C0 * Y)	0.00013	0.00014	0.00014
	(A1 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B1 * C0 * Y)	0.00013	0.00013	0.00013
	(A1 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * B1 * C0 * Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * B1 * Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * Y) + (!A1 * !B0 * C0 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7R	**(A0 * B0 * B1 * C0 * Y)**	-0.00013	-0.00012	-0.00009
	(A0 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * Y)	0.00026	0.00027	0.00027
	(A0 * B0 * B1 * !C0 * Y)	-0.00014	-0.00012	-0.00010
	(A0 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * Y)	0.00026	0.00027	0.00027
	(A0 * !B1 * C0 * Y)	-0.00013	-0.00011	-0.00009
	(A0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * Y)	0.00026	0.00027	0.00027
	(A0 * !B0 * B1 * C0 * Y)	-0.00013	-0.00011	-0.00008
	(A0 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00026	0.00026	0.00027
	(!A0 * B0 * B1 * C0 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * !B1 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B1 * !C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00006	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7R	**(A0 * B0 * B1 * C0 * Y)**	0.00013	0.00013	0.00013
	(A0 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * B1 * !C0 * Y)	0.00012	0.00013	0.00014
	(A0 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B1 * C0 * Y)	0.00013	0.00013	0.00013
	(A0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * B1 * C0 * Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * B1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * B0 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * Y)	-0.00025	-0.00024	-0.00022
	(!A0 * !B1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !B0 * B1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7R	**(A0 * A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00022	0.00023	0.00023
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * B1 * C0 * Y)	-0.00018	-0.00016	-0.00012
	(!A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * Y)	0.00022	0.00023	0.00024
	(!A1 * !B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00002
	(!A1 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * B1 * C0 * Y)	-0.00018	-0.00016	-0.00012
	(!A0 * A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00022	0.00023	0.00024
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7R	**(A0 * A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * Y)	0.00007	0.00007	0.00008
	(A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * B1 * !C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C0 * Y)	0.00004	0.00006	0.00008
	(A0 * A1 * B1 * !C0 * Y)	-0.00001	0.00003	0.00023
	(A0 * A1 * B1 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * Y) + (!A0 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * B1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00016
	(!A0 * A1 * B1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7R	**(A0 * A1 * B0 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * Y)	0.00021	0.00022	0.00022
	(A0 * A1 * !B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * C0 * Y)	-0.00017	-0.00015	-0.00012
	(!A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !C0 * !Y)	-0.00028	-0.00027	-0.00027
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * Y)	-0.00017	-0.00015	-0.00012
	(!A0 * A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00020	0.00020	0.00022
	(!A0 * A1 * !B0 * C0 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * Y)	0.00017	0.00018	0.00018
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00028	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO221X4H7R	**(A0 * A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00027	0.00027	0.00028
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A1 * !B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00027	0.00027	0.00028
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X4H7R	(A1 * B0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * Y)	0.00034	0.00034	0.00034
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00034	0.00034	0.00034

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO221X4H7R	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00002	0.00003	0.00004
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	-0.00034	-0.00034	-0.00033

AO222X0P5H7R

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

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X0P5H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X0P5H7R	0.00072	0.00072	0.00067	0.00068	0.00064	0.00077	0.04261

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X0P5H7R	0.00000	0.23317	0.47356

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X0P5H7R	A0->Y (RR)	0.06675	0.22164	0.59598
	A1->Y (RR)	0.06451	0.22011	0.59277
	B0->Y (RR)	0.06163	0.21362	0.58064
	B1->Y (RR)	0.05953	0.21193	0.57810
	C0->Y (RR)	0.05409	0.20220	0.56069
	C1->Y (RR)	0.05370	0.20186	0.55866

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X0P5H7R	A0->Y (FF)	0.12066	0.25382	0.56216
	A1->Y (FF)	0.11459	0.24587	0.55182
	B0->Y (FF)	0.11224	0.25011	0.57291
	B1->Y (FF)	0.10651	0.24253	0.56160
	C0->Y (FF)	0.09311	0.23150	0.55632
	C1->Y (FF)	0.09085	0.22643	0.54691

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X0P5H7R	A0	0.00035	0.00040	0.00053
	A0	0.00018	0.00019	0.00019
	A0	-0.00008	-0.00008	-0.00005
	A0	0.00212	0.00217	0.00229
	A1	0.00036	0.00043	0.00066
	A1	0.00017	0.00017	0.00019
	A1	-0.00004	-0.00004	-0.00001
	A1	0.00196	0.00203	0.00225
	B0	0.00038	0.00044	0.00059
	B0	0.00010	0.00010	0.00012
	B0	-0.00008	-0.00008	-0.00006
	B0	0.00183	0.00189	0.00202
	B1	0.00036	0.00044	0.00067
	B1	0.00011	0.00011	0.00017
	B1	-0.00004	-0.00004	-0.00001
	B1	0.00170	0.00177	0.00201
	C0	0.00038	0.00046	0.00066
	C0	0.00002	0.00002	0.00003
	C0	-0.00008	-0.00008	-0.00007
	C0	0.00155	0.00162	0.00180
	C1	0.00038	0.00047	0.00075
	C1	0.00002	0.00002	0.00006
	C1	-0.00004	-0.00004	-0.00003
	C1	0.00148	0.00157	0.00183

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X0P5H7R	A0	0.00236	0.00239	0.00246
	A0	-0.00018	-0.00017	-0.00017
	A0	0.00014	0.00015	0.00015
	A0	0.00052	0.00056	0.00064
	A1	0.00223	0.00227	0.00234
	A1	-0.00018	-0.00017	-0.00017
	A1	0.00010	0.00012	0.00013
	A1	0.00054	0.00059	0.00068
	B0	0.00200	0.00204	0.00217
	B0	-0.00010	-0.00010	-0.00007
	B0	0.00015	0.00015	0.00017
	B0	0.00053	0.00057	0.00071
	B1	0.00192	0.00196	0.00208
	B1	-0.00011	-0.00010	-0.00008
	B1	0.00011	0.00011	0.00012
	B1	0.00054	0.00060	0.00075
	C0	0.00161	0.00168	0.00196
	C0	-0.00003	-0.00002	-0.00001
	C0	0.00015	0.00015	0.00015
	C0	0.00046	0.00055	0.00085
	C1	0.00153	0.00161	0.00187
	C1	-0.00002	-0.00002	0.00000
	C1	0.00011	0.00011	0.00011
	C1	0.00045	0.00054	0.00085

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7R	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A1 * B0 * B1 * !C1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A1 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00016	0.00016	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7R	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00023	-0.00022	-0.00022
	(A1 * B0 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00023	-0.00022	-0.00022
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00023	-0.00022	-0.00022
	(A1 * !B1 * C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * !B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00022
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00016	-0.00015	-0.00015
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00016	-0.00016	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7R	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * B0 * B1 * !C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00020	0.00020	0.00021
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * !B1 * C0 * C1 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00020	0.00021	0.00021
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00020	0.00021	0.00021
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * !C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * !B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7R	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C1 * Y)	0.00009	0.00009	0.00010
	(A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B1 * C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00021	-0.00020	-0.00020
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00008	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * !C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00005	-0.00004	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7R	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00019	0.00020	0.00020
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00019	0.00019	0.00020
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00018	0.00019	0.00019
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00018	0.00018	0.00019
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00018	0.00018	0.00019
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00015	-0.00014	-0.00014
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00008
	(!A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00013	0.00014	0.00014
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00013	0.00014	0.00014
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00008
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00013	0.00014	0.00014
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00013	0.00014	0.00014

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7R	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00014	0.00014	0.00015
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A1 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00013	-0.00013	-0.00011
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00013	-0.00013	-0.00011
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00013	-0.00013	-0.00011
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00013	-0.00013	-0.00011

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7R	**(A0 * A1 * B0 * C0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00017	0.00018	0.00018
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00017	0.00017	0.00017
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00017	0.00017	0.00018
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00016	0.00017	0.00017
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00016	0.00016	0.00017
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00016	0.00017	0.00017
	(!A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00013	-0.00011
	(!A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00015	0.00016	0.00017
	(!A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00013	-0.00010
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00015	0.00016	0.00017
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7R	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00004	0.00003	0.00004
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00016	-0.00015
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * Y)	-0.00016	-0.00016	-0.00015
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A1 * !B0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00014	0.00015	0.00015
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7R	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00022	0.00022	0.00022
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00013	0.00013	0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7R	**(A1 * B0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00013	-0.00012	-0.00011

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7R	**(A1 * B0 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00027	0.00028	0.00028
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P5H7R	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00025
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00028	-0.00027	-0.00027
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00027	-0.00026	-0.00025
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00028	-0.00027	-0.00027
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00025
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00028	-0.00027	-0.00027
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00025
	(!A1 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003

AO222X0P7H7R

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X0P7H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X0P7H7R	0.00073	0.00072	0.00067	0.00068	0.00064	0.00077	0.04827

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X0P7H7R	0.00000	0.24633	0.48052

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X0P7H7R	A0->Y (RR)	0.06600	0.22147	0.59676
	A1->Y (RR)	0.06372	0.21991	0.59398
	B0->Y (RR)	0.06084	0.21341	0.58134
	B1->Y (RR)	0.05874	0.21175	0.57859
	C0->Y (RR)	0.05331	0.20203	0.56153
	C1->Y (RR)	0.05291	0.20176	0.55970

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X0P7H7R	A0->Y (FF)	0.12040	0.25433	0.56316
	A1->Y (FF)	0.11427	0.24635	0.55282
	B0->Y (FF)	0.11187	0.25061	0.57402
	B1->Y (FF)	0.10619	0.24305	0.56284
	C0->Y (FF)	0.09276	0.23203	0.55781
	C1->Y (FF)	0.09054	0.22701	0.54822

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X0P7H7R	A0	0.00038	0.00043	0.00057
	A0	0.00018	0.00018	0.00018
	A0	-0.00007	-0.00007	-0.00005
	A0	0.00213	0.00219	0.00233
	A1	0.00039	0.00046	0.00070
	A1	0.00018	0.00018	0.00018
	A1	-0.00004	-0.00004	-0.00001
	A1	0.00197	0.00205	0.00229
	B0	0.00040	0.00046	0.00062
	B0	0.00007	0.00010	0.00012
	B0	-0.00008	-0.00008	-0.00005
	B0	0.00185	0.00191	0.00206
	B1	0.00038	0.00047	0.00071
	B1	0.00010	0.00010	0.00012
	B1	-0.00004	-0.00004	-0.00001
	B1	0.00172	0.00179	0.00204
	C0	0.00042	0.00049	0.00068
	C0	0.00002	0.00002	0.00003
	C0	-0.00008	-0.00007	-0.00007
	C0	0.00158	0.00165	0.00183
	C1	0.00041	0.00050	0.00078
	C1	0.00002	0.00002	0.00003
	C1	-0.00004	-0.00004	-0.00003
	C1	0.00151	0.00159	0.00187

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X0P7H7R	A0	0.00239	0.00242	0.00250
	A0	-0.00018	-0.00018	-0.00016
	A0	0.00013	0.00015	0.00017
	A0	0.00054	0.00058	0.00068
	A1	0.00226	0.00230	0.00238
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00010	0.00011	0.00013
	A1	0.00057	0.00062	0.00072
	B0	0.00203	0.00207	0.00221
	B0	-0.00012	-0.00010	-0.00007
	B0	0.00013	0.00015	0.00017
	B0	0.00056	0.00060	0.00075
	B1	0.00194	0.00199	0.00212
	B1	-0.00010	-0.00010	-0.00007
	B1	0.00011	0.00011	0.00012
	B1	0.00057	0.00063	0.00079
	C0	0.00163	0.00171	0.00200
	C0	-0.00002	-0.00002	-0.00000
	C0	0.00015	0.00015	0.00015
	C0	0.00048	0.00058	0.00089
	C1	0.00156	0.00164	0.00191
	C1	-0.00002	-0.00002	0.00000
	C1	0.00011	0.00011	0.00012
	C1	0.00048	0.00057	0.00089

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7R	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A1 * B0 * B1 * !C1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A1 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00023	0.00023	0.00024
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00013	-0.00013
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00016	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7R	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B1 * C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A1 * !B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00014
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00016	-0.00016	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7R	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * B0 * B1 * !C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00020	0.00020	0.00021
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * !B1 * C0 * C1 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00020	0.00021	0.00021
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00020	0.00021	0.00021
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * B0 * B1 * !C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * !B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * !B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7R	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C1 * Y)	0.00009	0.00010	0.00010
	(A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00009	0.00009	0.00010
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B1 * C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * !C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7R	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00019	0.00020	0.00020
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00019	0.00019	0.00020
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00018	0.00019	0.00019
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00018	0.00018	0.00019
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00015	-0.00014	-0.00014
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00008
	(!A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00008
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00014	0.00014	0.00014

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7R	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00014	0.00014	0.00015
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A1 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00013	-0.00013	-0.00011
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00013	-0.00013	-0.00011
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00013	-0.00013	-0.00011
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00013	-0.00013	-0.00011

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7R	**(A0 * A1 * B0 * C0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00017	0.00018	0.00018
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00017	0.00017	0.00017
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00017	0.00017	0.00018
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00016	0.00017	0.00017
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00016	0.00017	0.00017
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00016	0.00017	0.00017
	(!A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00013	-0.00011
	(!A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00015	0.00016	0.00017
	(!A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00013	-0.00010
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00015	0.00016	0.00017
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7R	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00016	-0.00015
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * Y)	-0.00016	-0.00016	-0.00015
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A1 * !B0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7R	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00022	0.00022	0.00022
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00012	0.00013	0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7R	**(A1 * B0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00013	-0.00012	-0.00012
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00013	-0.00012	-0.00012
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00013	-0.00012	-0.00012
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00013	-0.00012	-0.00012

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7R	**(A1 * B0 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00026	0.00027	0.00027
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00027	0.00028	0.00028
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X0P7H7R	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00025
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00027	-0.00026	-0.00025
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00025
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00028	-0.00027	-0.00027
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00025
	(!A1 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003

AO222X1H7R

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

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X1H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X1H7R	0.00074	0.00072	0.00067	0.00068	0.00064	0.00077	0.05756

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X1H7R	0.00000	0.26496	0.49147

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X1H7R	A0->Y (RR)	0.06513	0.22167	0.59750
	A1->Y (RR)	0.06284	0.22011	0.59530
	B0->Y (RR)	0.05997	0.21365	0.58351
	B1->Y (RR)	0.05787	0.21204	0.58009
	C0->Y (RR)	0.05244	0.20229	0.56401
	C1->Y (RR)	0.05211	0.20206	0.56159

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X1H7R	A0->Y (FF)	0.12055	0.25752	0.57217
	A1->Y (FF)	0.11447	0.24960	0.56183
	B0->Y (FF)	0.11203	0.25388	0.58336
	B1->Y (FF)	0.10638	0.24637	0.57239
	C0->Y (FF)	0.09291	0.23536	0.56741
	C1->Y (FF)	0.09076	0.23038	0.55766

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X1H7R	A0	0.00043	0.00048	0.00063
	A0	0.00018	0.00018	0.00018
	A0	-0.00007	-0.00007	-0.00005
	A0	0.00217	0.00224	0.00238
	A1	0.00043	0.00051	0.00077
	A1	0.00017	0.00018	0.00018
	A1	-0.00004	-0.00003	-0.00002
	A1	0.00200	0.00209	0.00235
	B0	0.00045	0.00051	0.00068
	B0	0.00010	0.00010	0.00012
	B0	-0.00007	-0.00007	-0.00005
	B0	0.00189	0.00195	0.00211
	B1	0.00044	0.00051	0.00078
	B1	0.00009	0.00010	0.00011
	B1	-0.00004	-0.00003	-0.00001
	B1	0.00176	0.00183	0.00210
	C0	0.00046	0.00053	0.00076
	C0	0.00001	0.00002	0.00002
	C0	-0.00007	-0.00007	-0.00006
	C0	0.00162	0.00169	0.00188
	C1	0.00047	0.00056	0.00085
	C1	0.00001	0.00002	0.00002
	C1	-0.00003	-0.00003	-0.00003
	C1	0.00154	0.00163	0.00193

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X1H7R	A0	0.00243	0.00246	0.00256
	A0	-0.00018	-0.00017	-0.00016
	A0	0.00015	0.00015	0.00015
	A0	0.00059	0.00063	0.00072
	A1	0.00230	0.00234	0.00243
	A1	-0.00017	-0.00017	-0.00016
	A1	0.00009	0.00011	0.00013
	A1	0.00062	0.00067	0.00077
	B0	0.00207	0.00211	0.00227
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00012	0.00015	0.00017
	B0	0.00060	0.00065	0.00082
	B1	0.00198	0.00202	0.00218
	B1	-0.00009	-0.00009	-0.00007
	B1	0.00010	0.00011	0.00012
	B1	0.00062	0.00067	0.00085
	C0	0.00167	0.00175	0.00207
	C0	-0.00002	-0.00001	0.00001
	C0	0.00014	0.00015	0.00015
	C0	0.00052	0.00063	0.00096
	C1	0.00159	0.00168	0.00198
	C1	-0.00002	-0.00001	0.00000
	C1	0.00010	0.00011	0.00012
	C1	0.00052	0.00062	0.00095

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7R	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00023	0.00023	0.00024
	(A1 * B0 * B1 * !C1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00024
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00023	0.00023	0.00024
	(A1 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00023	0.00024	0.00024
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00013	-0.00013
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00016	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7R	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B1 * C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A1 * !B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * Y)	0.00013	0.00014	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00017	-0.00016	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7R	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * B0 * B1 * !C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * !B1 * C0 * C1 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00020	0.00021	0.00021
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00021
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * B0 * B1 * !C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7R	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C1 * Y)	0.00009	0.00009	0.00010
	(A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B1 * C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * B0 * B1 * !C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00005	-0.00004	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7R	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00019	0.00020	0.00020
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00019	0.00019	0.00020
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00018	0.00018	0.00019
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00018	0.00018	0.00019
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00015	-0.00014	-0.00014
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00008
	(!A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00008
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00013	0.00014	0.00014
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00014	0.00014	0.00014

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7R	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00014	0.00015	0.00015
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A1 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00013	-0.00013	-0.00012

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7R	**(A0 * A1 * B0 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00017	0.00018	0.00018
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C1 * Y)	0.00017	0.00017	0.00018
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00017	0.00017	0.00018
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00016	0.00017	0.00017
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00016	0.00016	0.00017
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00016	0.00017	0.00017
	(!A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00013	-0.00011
	(!A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00015	0.00016	0.00017
	(!A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00013	-0.00010
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00015	0.00016	0.00017
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7R	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00016	-0.00015
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * Y)	-0.00016	-0.00016	-0.00015
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A1 * !B0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7R	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00022	0.00022	0.00022
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00012	0.00013	0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7R	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00013	-0.00012	-0.00012
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00013	-0.00012	-0.00012
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00013	-0.00012	-0.00012
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00013	-0.00012	-0.00012

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7R	**(A1 * B0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00027	0.00028	0.00028
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1H7R	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00025
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00028	-0.00027	-0.00027
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00027	-0.00026	-0.00025
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00025
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00028	-0.00027	-0.00027
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00025
	(!A1 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003

AO222X1P4H7R

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

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X1P4H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X1P4H7R	0.00074	0.00072	0.00067	0.00068	0.00064	0.00077	0.06580

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X1P4H7R	0.00000	0.28288	0.50103

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X1P4H7R	A0->Y (RR)	0.06402	0.22141	0.59911
	A1->Y (RR)	0.06178	0.21990	0.59637
	B0->Y (RR)	0.05893	0.21342	0.58474
	B1->Y (RR)	0.05683	0.21183	0.58075
	C0->Y (RR)	0.05142	0.20212	0.56491
	C1->Y (RR)	0.05105	0.20192	0.56346

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X1P4H7R	A0->Y (FF)	0.11960	0.25753	0.57311
	A1->Y (FF)	0.11363	0.24968	0.56259
	B0->Y (FF)	0.11115	0.25396	0.58430
	B1->Y (FF)	0.10555	0.24649	0.57311
	C0->Y (FF)	0.09198	0.23543	0.56849
	C1->Y (FF)	0.08994	0.23053	0.55898

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X1P4H7R	A0	0.00045	0.00051	0.00067
	A0	0.00017	0.00017	0.00018
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00219	0.00225	0.00241
	A1	0.00046	0.00053	0.00081
	A1	0.00017	0.00017	0.00017
	A1	-0.00003	-0.00003	-0.00000
	A1	0.00203	0.00211	0.00239
	B0	0.00047	0.00053	0.00072
	B0	0.00009	0.00009	0.00011
	B0	-0.00007	-0.00007	-0.00005
	B0	0.00189	0.00196	0.00214
	B1	0.00046	0.00054	0.00083
	B1	0.00007	0.00009	0.00011
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00177	0.00185	0.00214
	C0	0.00049	0.00056	0.00078
	C0	0.00001	0.00001	0.00001
	C0	-0.00007	-0.00007	-0.00005
	C0	0.00163	0.00170	0.00192
	C1	0.00049	0.00058	0.00090
	C1	0.00001	0.00001	0.00002
	C1	-0.00003	-0.00003	-0.00001
	C1	0.00156	0.00165	0.00197

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X1P4H7R	A0	0.00244	0.00248	0.00259
	A0	-0.00017	-0.00017	-0.00016
	A0	0.00014	0.00014	0.00016
	A0	0.00061	0.00065	0.00076
	A1	0.00231	0.00235	0.00247
	A1	-0.00017	-0.00016	-0.00016
	A1	0.00009	0.00010	0.00011
	A1	0.00064	0.00069	0.00080
	B0	0.00208	0.00212	0.00231
	B0	-0.00009	-0.00009	-0.00005
	B0	0.00014	0.00014	0.00016
	B0	0.00063	0.00067	0.00086
	B1	0.00199	0.00204	0.00222
	B1	-0.00010	-0.00009	-0.00007
	B1	0.00010	0.00011	0.00011
	B1	0.00064	0.00070	0.00089
	C0	0.00168	0.00176	0.00211
	C0	-0.00001	-0.00001	0.00001
	C0	0.00014	0.00014	0.00014
	C0	0.00056	0.00064	0.00100
	C1	0.00161	0.00169	0.00203
	C1	-0.00001	-0.00001	0.00001
	C1	0.00010	0.00010	0.00010
	C1	0.00054	0.00064	0.00100

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7R	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A1 * B0 * B1 * !C1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A1 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00023	0.00024	0.00024
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00013	-0.00013
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * !C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00017	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7R	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B1 * C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A1 * !B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00017	-0.00016	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7R	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * B0 * B1 * !C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * !B1 * C0 * C1 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00021
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * B0 * B1 * !C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7R	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C1 * Y)	0.00009	0.00009	0.00010
	(A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00009	0.00009	0.00010
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B1 * C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * B0 * B1 * !C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7R	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00019	0.00020	0.00020
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00019	0.00019	0.00020
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00018	0.00018	0.00019
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00018	0.00018	0.00019
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00008
	(!A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00008
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00014	0.00014	0.00014

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7R	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00014	0.00015	0.00015
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A1 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00013	-0.00013	-0.00012

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7R	**(A0 * A1 * B0 * C0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00017	0.00018	0.00018
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00017	0.00017	0.00017
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00017	0.00017	0.00018
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00016	0.00017	0.00017
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00016	0.00016	0.00017
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00013	-0.00011
	(!A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00015	0.00016	0.00017
	(!A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00013	-0.00011
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00015	0.00016	0.00017
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7R	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00016	-0.00015
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * Y)	-0.00016	-0.00016	-0.00015
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A1 * !B0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7R	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00022	0.00022	0.00022
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00013	0.00013	0.00013

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7R	**(A1 * B0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00013	-0.00012	-0.00012
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00013	-0.00012	-0.00012
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00013	-0.00012	-0.00012
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00013	-0.00012	-0.00012

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7R	**(A1 * B0 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00027	0.00028	0.00028
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X1P4H7R	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00027	-0.00026	-0.00025
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00028	-0.00027	-0.00027
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00025
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00028	-0.00027	-0.00027
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00025
	(!A1 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003

AO222X2H7R

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

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X2H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X2H7R	0.00072	0.00070	0.00071	0.00066	0.00072	0.00078	0.07740

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X2H7R	0.00000	0.31044	0.51450

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X2H7R	A0->Y (RR)	0.06465	0.22329	0.60279
	A1->Y (RR)	0.06265	0.22207	0.60053
	B0->Y (RR)	0.06001	0.21589	0.58908
	B1->Y (RR)	0.05770	0.21416	0.58584
	C0->Y (RR)	0.05271	0.20489	0.56999
	C1->Y (RR)	0.05217	0.20458	0.56814

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X2H7R	A0->Y (FF)	0.12124	0.25980	0.57416
	A1->Y (FF)	0.11581	0.25230	0.56377
	B0->Y (FF)	0.11379	0.25728	0.58681
	B1->Y (FF)	0.10775	0.24937	0.57552
	C0->Y (FF)	0.09457	0.23852	0.57106
	C1->Y (FF)	0.09176	0.23319	0.56132

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X2H7R	A0	0.00054	0.00060	0.00079
	A0	0.00016	0.00016	0.00017
	A0	-0.00007	-0.00006	-0.00003
	A0	0.00223	0.00231	0.00249
	A1	0.00054	0.00062	0.00094
	A1	0.00016	0.00016	0.00017
	A1	-0.00003	-0.00002	0.00001
	A1	0.00209	0.00217	0.00248
	B0	0.00057	0.00063	0.00083
	B0	0.00009	0.00009	0.00011
	B0	-0.00006	-0.00006	-0.00004
	B0	0.00198	0.00204	0.00224
	B1	0.00056	0.00064	0.00097
	B1	0.00009	0.00009	0.00011
	B1	-0.00002	-0.00002	-0.00002
	B1	0.00181	0.00192	0.00224
	C0	0.00059	0.00067	0.00090
	C0	0.00000	0.00000	0.00001
	C0	-0.00006	-0.00006	-0.00005
	C0	0.00174	0.00181	0.00204
	C1	0.00060	0.00069	0.00104
	C1	0.00000	0.00000	0.00001
	C1	-0.00003	-0.00002	-0.00001
	C1	0.00165	0.00174	0.00210

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X2H7R	A0	0.00252	0.00256	0.00270
	A0	-0.00016	-0.00015	-0.00015
	A0	0.00014	0.00014	0.00014
	A0	0.00072	0.00077	0.00092
	A1	0.00239	0.00244	0.00258
	A1	-0.00016	-0.00015	-0.00015
	A1	0.00008	0.00010	0.00011
	A1	0.00076	0.00081	0.00095
	B0	0.00217	0.00222	0.00243
	B0	-0.00009	-0.00008	-0.00007
	B0	0.00011	0.00014	0.00015
	B0	0.00073	0.00078	0.00101
	B1	0.00206	0.00212	0.00234
	B1	-0.00009	-0.00008	-0.00005
	B1	0.00005	0.00006	0.00011
	B1	0.00076	0.00081	0.00104
	C0	0.00176	0.00185	0.00224
	C0	-0.00000	-0.00000	0.00003
	C0	0.00014	0.00014	0.00014
	C0	0.00064	0.00072	0.00113
	C1	0.00168	0.00176	0.00215
	C1	-0.00000	-0.00000	0.00002
	C1	0.00009	0.00010	0.00010
	C1	0.00063	0.00072	0.00112

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7R	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A1 * B0 * B1 * !C1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00022	0.00022	0.00023
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00023
	(A1 * !B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * B1 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00017	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7R	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00010	0.00010	0.00011
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B1 * C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00022
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * B1 * Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00017	-0.00016	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7R	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * B0 * B1 * !C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00020	0.00020	0.00021
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * !B1 * C0 * C1 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00009	-0.00007	-0.00006
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * B0 * B1 * !C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * !B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * !B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7R	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C1 * Y)	0.00009	0.00009	0.00010
	(A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B1 * C0 * C1 * Y)	0.00009	0.00009	0.00010
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00021	-0.00020	-0.00020
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00009	0.00009	0.00010
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * !C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7R	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00021	0.00021	0.00022
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00008
	(!A1 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * Y)	0.00019	0.00020	0.00021
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00008
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00019	0.00020	0.00021
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00015	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7R	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00003	0.00004	0.00004
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00014	0.00014	0.00015
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00016
	(!A1 * B1 * C0 * C1 * Y)	0.00011	0.00012	0.00012
	(!A1 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00012
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00014	-0.00014	-0.00012
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00011	0.00012	0.00012
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00012
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00017	0.00018	0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00014	-0.00014	-0.00012

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7R	**(A0 * A1 * B0 * C0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00018	0.00019	0.00019
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00018	0.00018	0.00018
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00018	0.00018	0.00018
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00018	0.00018	0.00018
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00017	0.00017	0.00017
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00017	0.00017	0.00018
	(!A1 * B0 * C0 * C1 * Y)	-0.00014	-0.00013	-0.00010
	(!A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00016	0.00017	0.00018
	(!A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00016
	(!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00014	-0.00013	-0.00011
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00016	0.00017	0.00017
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00004	0.00004	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7R	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00017	-0.00017
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * Y)	-0.00017	-0.00017	-0.00016
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00017	-0.00017	-0.00016
	(!A1 * B0 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * !B0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7R	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00024	0.00025	0.00025
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00023	0.00024	0.00024
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00014	0.00014	0.00014

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7R	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00025	-0.00024	-0.00024
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00025	-0.00024	-0.00024
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00014	-0.00013	-0.00012
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00013

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7R	**(A1 * B0 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00028	0.00028	0.00029
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X2H7R	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003

AO222X3H7R

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

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X3H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X3H7R	0.00083	0.00081	0.00077	0.00074	0.00076	0.00086	0.12043

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X3H7R	0.00000	0.44474	0.66809

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X3H7R	A0->Y (RR)	0.06230	0.22290	0.60575
	A1->Y (RR)	0.05993	0.22094	0.60155
	B0->Y (RR)	0.05722	0.21521	0.59158
	B1->Y (RR)	0.05504	0.21329	0.58776
	C0->Y (RR)	0.05046	0.20505	0.57388
	C1->Y (RR)	0.04974	0.20427	0.57089

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X3H7R	A0->Y (FF)	0.12103	0.26283	0.58163
	A1->Y (FF)	0.11480	0.25470	0.57080
	B0->Y (FF)	0.11260	0.25978	0.59436
	B1->Y (FF)	0.10687	0.25216	0.58323
	C0->Y (FF)	0.09487	0.24261	0.57973
	C1->Y (FF)	0.09196	0.23713	0.57000

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X3H7R	A0	0.00081	0.00090	0.00121
	A0	0.00020	0.00021	0.00021
	A0	-0.00008	-0.00007	-0.00001
	A0	0.00282	0.00291	0.00322
	A1	0.00082	0.00093	0.00145
	A1	0.00020	0.00020	0.00021
	A1	-0.00003	-0.00002	0.00003
	A1	0.00263	0.00275	0.00326
	B0	0.00084	0.00093	0.00127
	B0	0.00010	0.00010	0.00011
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00247	0.00258	0.00292
	B1	0.00083	0.00095	0.00148
	B1	0.00010	0.00010	0.00013
	B1	-0.00003	-0.00003	0.00001
	B1	0.00231	0.00243	0.00296
	C0	0.00087	0.00096	0.00134
	C0	-0.00000	-0.00000	0.00002
	C0	-0.00007	-0.00007	-0.00007
	C0	0.00217	0.00229	0.00267
	C1	0.00087	0.00100	0.00157
	C1	-0.00000	-0.00000	0.00000
	C1	-0.00003	-0.00002	-0.00002
	C1	0.00206	0.00221	0.00278

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X3H7R	A0	0.00320	0.00327	0.00355
	A0	-0.00020	-0.00020	-0.00019
	A0	0.00017	0.00017	0.00019
	A0	0.00107	0.00117	0.00146
	A1	0.00304	0.00311	0.00338
	A1	-0.00020	-0.00019	-0.00018
	A1	0.00009	0.00012	0.00015
	A1	0.00111	0.00119	0.00147
	B0	0.00278	0.00285	0.00326
	B0	-0.00010	-0.00010	-0.00007
	B0	0.00014	0.00017	0.00023
	B0	0.00109	0.00118	0.00159
	B1	0.00265	0.00272	0.00313
	B1	-0.00010	-0.00010	-0.00006
	B1	0.00006	0.00012	0.00013
	B1	0.00106	0.00121	0.00162
	C0	0.00231	0.00243	0.00308
	C0	0.00000	0.00001	0.00004
	C0	0.00016	0.00017	0.00017
	C0	0.00100	0.00113	0.00179
	C1	0.00220	0.00232	0.00296
	C1	0.00000	0.00001	0.00003
	C1	0.00012	0.00012	0.00013
	C1	0.00099	0.00112	0.00178

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7R	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00012	-0.00010	-0.00008
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A1 * B0 * B1 * !C1 * Y)	-0.00012	-0.00011	-0.00008
	(A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00012	-0.00011	-0.00008
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A1 * !B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00007
	(A1 * !B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00000
	(A1 * !B1 * C0 * C1 * Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00012	-0.00010	-0.00007
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00027
	(!A1 * B0 * B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00017	0.00018	0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00017	0.00018	0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00017	0.00018	0.00018
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00017	0.00018	0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7R	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00012	0.00012	0.00012
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * B0 * B1 * !C1 * Y)	0.00012	0.00012	0.00013
	(A1 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00026	-0.00025	-0.00025
	(A1 * !B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(A1 * !B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * B1 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !C1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7R	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00011	-0.00010	-0.00007
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * B0 * B1 * !C1 * Y)	-0.00012	-0.00010	-0.00007
	(A0 * B0 * B1 * !C1 * Y)	-0.00002	-0.00001	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00012	-0.00010	-0.00008
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !B1 * C0 * C1 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00011	-0.00009	-0.00008
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * !C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	0.00021	0.00022	0.00022
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00021	0.00022	0.00022
	(!A0 * !B1 * !C1 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00021	0.00022	0.00022
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7R	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * B1 * !C1 * Y)	0.00011	0.00012	0.00013
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00002
	(A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00011	0.00012	0.00012
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * !B1 * C0 * C1 * Y)	0.00011	0.00011	0.00011
	(A0 * !B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * B0 * B1 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B1 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B1 * !C1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00023	0.00024	0.00024
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7R	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00023	0.00024	0.00024
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00016
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * B1 * C0 * C1 * Y)	-0.00014	-0.00012	-0.00010
	(!A1 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * Y)	0.00021	0.00022	0.00023
	(!A1 * !B1 * !C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00014	-0.00012	-0.00010
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00021	0.00022	0.00023
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00017	0.00017	0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7R	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * B1 * C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A1 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7R	**(A0 * A1 * B0 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00019	0.00020	0.00020
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * Y)	0.00018	0.00018	0.00019
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00015	-0.00012
	(!A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00001	0.00000
	(!A1 * B0 * C0 * C1 * Y)	0.00017	0.00018	0.00019
	(!A1 * !B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00016	-0.00014	-0.00012
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00017	0.00018	0.00019
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7R	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00005	0.00006	0.00006
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * Y)	-0.00018	-0.00018	-0.00017
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7R	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C1 * Y)	0.00027	0.00027	0.00027
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C1 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00016	0.00016	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7R	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00027	-0.00027	-0.00026
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00026	-0.00025	-0.00024
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00026	-0.00025	-0.00025
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7R	**(A1 * B0 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00031	0.00031	0.00032
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00031	0.00031	0.00032
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00031	0.00031	0.00031
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00030	0.00030	0.00030
	(!A1 * !B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X3H7R	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00030	-0.00029	-0.00029
	(A0 * A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00030	-0.00029	-0.00029
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00030	-0.00029	-0.00029
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00030	-0.00029	-0.00029
	(!A1 * !B1 * !C0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004

AO222X4H7R

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

Cell Description

AO

Y=(A0 & A1)(B0 & B1)(C0 & C1)

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	0
0	x	0	x	1	0	0
0	x	x	x	1	1	1
0	x	1	0	0	x	0
0	x	1	0	1	0	0
x	x	1	1	x	x	1
1	0	0	x	0	x	0
1	0	0	x	1	0	0
1	0	x	x	1	1	1
1	0	1	0	0	x	0
1	0	1	0	1	0	0
1	1	x	x	x	x	1

Footprint

Cell Name	Area
AO222X4H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AO222X4H7R	0.00090	0.00090	0.00086	0.00083	0.00085	0.00095	0.15466

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO222X4H7R	0.00000	0.55429	0.81368

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X4H7R	A0->Y (RR)	0.05913	0.21949	0.60108
	A1->Y (RR)	0.05685	0.21739	0.59645
	B0->Y (RR)	0.05446	0.21208	0.58749
	B1->Y (RR)	0.05228	0.21000	0.58309
	C0->Y (RR)	0.04795	0.20217	0.57008
	C1->Y (RR)	0.04692	0.20100	0.56641

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO222X4H7R	A0->Y (FF)	0.11735	0.25886	0.57682
	A1->Y (FF)	0.11100	0.25075	0.56620
	B0->Y (FF)	0.10940	0.25611	0.58926
	B1->Y (FF)	0.10376	0.24854	0.57818
	C0->Y (FF)	0.09235	0.23951	0.57483
	C1->Y (FF)	0.08902	0.23367	0.56481

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X4H7R	A0	0.00104	0.00114	0.00154
	A0	0.00024	0.00025	0.00025
	A0	-0.00009	-0.00008	-0.00001
	A0	0.00330	0.00340	0.00380
	A1	0.00105	0.00119	0.00184
	A1	0.00023	0.00023	0.00026
	A1	-0.00003	-0.00003	0.00003
	A1	0.00308	0.00322	0.00387
	B0	0.00104	0.00117	0.00159
	B0	0.00011	0.00012	0.00016
	B0	-0.00009	-0.00009	-0.00006
	B0	0.00288	0.00302	0.00344
	B1	0.00103	0.00119	0.00186
	B1	0.00011	0.00011	0.00014
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00264	0.00283	0.00351
	C0	0.00108	0.00120	0.00168
	C0	-0.00001	-0.00001	0.00000
	C0	-0.00009	-0.00009	-0.00007
	C0	0.00254	0.00267	0.00315
	C1	0.00109	0.00125	0.00197
	C1	-0.00001	-0.00001	0.00001
	C1	-0.00003	-0.00003	-0.00002
	C1	0.00241	0.00257	0.00329

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO222X4H7R	A0	0.00373	0.00381	0.00418
	A0	-0.00025	-0.00024	-0.00022
	A0	0.00019	0.00020	0.00020
	A0	0.00134	0.00145	0.00184
	A1	0.00353	0.00362	0.00399
	A1	-0.00023	-0.00023	-0.00022
	A1	0.00014	0.00015	0.00017
	A1	0.00134	0.00147	0.00184
	B0	0.00324	0.00334	0.00387
	B0	-0.00012	-0.00011	-0.00008
	B0	0.00017	0.00020	0.00021
	B0	0.00137	0.00147	0.00200
	B1	0.00309	0.00318	0.00371
	B1	-0.00011	-0.00011	-0.00007
	B1	0.00007	0.00014	0.00018
	B1	0.00136	0.00150	0.00204
	C0	0.00270	0.00285	0.00368
	C0	0.00000	0.00001	0.00005
	C0	0.00020	0.00020	0.00020
	C0	0.00126	0.00141	0.00226
	C1	0.00256	0.00271	0.00353
	C1	0.00000	0.00001	0.00006
	C1	0.00014	0.00014	0.00016
	C1	0.00125	0.00140	0.00224

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7R	**(A1 * B0 * B1 * C0 * C1 * Y)**	-0.00014	-0.00012	-0.00009
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * !C1 * Y)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00002	-0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00028	0.00028	0.00028
	(A1 * !B1 * C0 * C1 * Y)	-0.00014	-0.00011	-0.00008
	(A1 * !B1 * C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * Y)	0.00028	0.00029	0.00029
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00014	-0.00011	-0.00008
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00028	0.00029	0.00029
	(!A1 * B0 * B1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00000	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7R	**(A1 * B0 * B1 * C0 * C1 * Y)**	0.00014	0.00014	0.00014
	(A1 * B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * B1 * !C1 * Y)	0.00014	0.00014	0.00015
	(A1 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00013	0.00014	0.00015
	(A1 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00003
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B1 * C0 * C1 * Y)	0.00013	0.00013	0.00014
	(A1 * !B1 * C0 * C1 * Y)	0.00002	0.00002	0.00003
	(A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00013	0.00013	0.00014
	(A1 * !B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00017	0.00018	0.00018
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * Y) + (!A1 * !B0 * C0 * C1 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00018
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00019	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7R	**(A0 * B0 * B1 * C0 * C1 * Y)**	-0.00014	-0.00012	-0.00009
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * B1 * !C1 * Y)	-0.00014	-0.00012	-0.00010
	(A0 * B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00014	-0.00012	-0.00010
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !B1 * C0 * C1 * Y)	-0.00013	-0.00011	-0.00008
	(A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * Y)	0.00026	0.00027	0.00027
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00013	-0.00011	-0.00009
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00026	0.00027	0.00027
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C1 * Y)	0.00023	0.00024	0.00024
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00023	0.00024	0.00024
	(!A0 * !B1 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B1 * !C1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C1 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7R	**(A0 * B0 * B1 * C0 * C1 * Y)**	0.00013	0.00014	0.00014
	(A0 * B0 * B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * B1 * !C1 * Y)	0.00014	0.00014	0.00014
	(A0 * B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00014	0.00014	0.00014
	(A0 * B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B1 * C0 * C1 * Y)	0.00013	0.00013	0.00013
	(A0 * !B1 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * C1 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00013	0.00013	0.00014
	(A0 * !B0 * B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * B0 * B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * B0 * B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !B1 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !B1 * !C1 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !C0 * C1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * !Y)	-0.00007	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7R	**(A0 * A1 * B1 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00007	-0.00006	-0.00006
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C1 * Y)	0.00025	0.00026	0.00026
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00025	0.00026	0.00026
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00007	-0.00006	-0.00006
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * B1 * C0 * C1 * Y)	-0.00016	-0.00014	-0.00011
	(!A1 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00016	-0.00014	-0.00011
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00018	0.00019	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7R	**(A0 * A1 * B1 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	0.00006	0.00006	0.00007
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * C0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C0 * C1 * Y)	0.00004	0.00004	0.00005
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * Y)	0.00006	0.00006	0.00007
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00022
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00024	-0.00023	-0.00022
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00024	-0.00023	-0.00022
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00019	0.00019	0.00020
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * Y) + (!A0 * !B1 * C0 * C1 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * B1 * C0 * C1 * Y)	0.00016	0.00016	0.00017
	(!A1 * B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !C1 * !Y)	0.00022	0.00023	0.00024
	(!A1 * !B1 * !C1 * !Y)	-0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00022	0.00023	0.00024
	(!A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B1 * C0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00022	0.00023	0.00024
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00022	0.00023	0.00024
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7R	**(A0 * A1 * B0 * C0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(A0 * A1 * B0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C1 * Y)	0.00021	0.00021	0.00022
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00021	0.00021	0.00022
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * C0 * C1 * Y)	-0.00019	-0.00016	-0.00014
	(!A1 * B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * Y)	0.00019	0.00020	0.00021
	(!A1 * !B0 * C0 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !C1 * !Y)	-0.00001	-0.00000	0.00001
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00019	-0.00016	-0.00014
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7R	**(A0 * A1 * B0 * C0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * C0 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !B0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * B0 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A1 * !B0 * !C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * B0 * C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7R	**(A1 * B0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C1 * Y)	0.00029	0.00030	0.00030
	(A1 * B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C1 * Y)	0.00029	0.00030	0.00030
	(A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00029	0.00030	0.00030
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00029	0.00030	0.00030
	(!A1 * B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7R	**(A1 * B0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C1 * Y)	-0.00030	-0.00029	-0.00029
	(A1 * B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * Y)	-0.00028	-0.00027	-0.00026
	(A0 * A1 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * Y)	-0.00028	-0.00027	-0.00026
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00028	-0.00027	-0.00026
	(!A1 * B0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * Y)	-0.00030	-0.00029	-0.00029
	(!A1 * B0 * B1 * !C1 * Y)	-0.00000	0.00000	0.00001
	(!A1 * B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * Y)	-0.00028	-0.00027	-0.00026
	(!A1 * !B1 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AO222X4H7R	**(A1 * B0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00002	-0.00003	-0.00002
	(A1 * B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * Y)	0.00034	0.00034	0.00035
	(A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !C0 * Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * Y)	0.00032	0.00033	0.00033
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00032	0.00033	0.00033
	(!A1 * B0 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00034	0.00034	0.00035
	(!A1 * B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * Y)	0.00032	0.00033	0.00033
	(!A1 * !B1 * !C0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B1 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

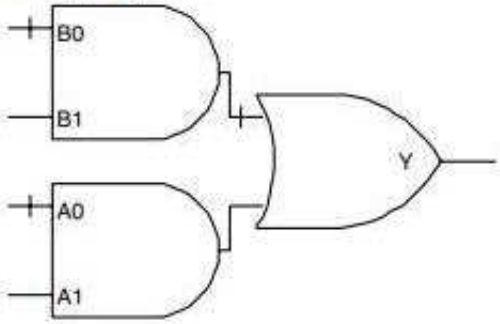
AO222X4H7R	**(A1 * B0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * Y)	-0.00033	-0.00032	-0.00031
	(A0 * A1 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * Y)	-0.00033	-0.00032	-0.00031
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00033	-0.00032	-0.00031
	(!A1 * B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * B1 * C0 * Y)	0.00002	0.00003	0.00004
	(!A1 * B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !C0 * Y)	-0.00033	-0.00032	-0.00031
	(!A1 * !B1 * !C0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00003

AO22X0P5H7R

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

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X0P5H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X0P5H7R	0.00062	0.00071	0.00075	0.00076	0.04267

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X0P5H7R	0.00000	0.20472	0.33037

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X0P5H7R	A0->Y (RR)	0.05321	0.20141	0.56151
	A1->Y (RR)	0.05251	0.20043	0.55836
	B0->Y (RR)	0.04757	0.19055	0.54017
	B1->Y (RR)	0.04587	0.18874	0.53642

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X0P5H7R	A0->Y (FF)	0.06762	0.19288	0.49100
	A1->Y (FF)	0.06495	0.18818	0.48291
	B0->Y (FF)	0.06008	0.18474	0.48318
	B1->Y (FF)	0.05626	0.17892	0.47445

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X0P5H7R	A0	0.00035	0.00042	0.00060
	A0	0.00011	0.00011	0.00011
	A0	-0.00006	-0.00006	-0.00004
	A0	0.00156	0.00163	0.00179
	A1	0.00035	0.00043	0.00069
	A1	0.00010	0.00010	0.00012
	A1	-0.00002	-0.00002	0.00000
	A1	0.00142	0.00151	0.00177
	B0	0.00035	0.00043	0.00065
	B0	0.00002	0.00002	0.00003
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00132	0.00140	0.00159
	B1	0.00037	0.00048	0.00078
	B1	0.00002	0.00002	0.00003
	B1	-0.00002	-0.00002	-0.00001
	B1	0.00118	0.00127	0.00157

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X0P5H7R	A0	0.00168	0.00173	0.00187
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00009	0.00010	0.00010
	A0	0.00043	0.00049	0.00066
	A1	0.00160	0.00166	0.00181
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00005	0.00006	0.00006
	A1	0.00049	0.00055	0.00072
	B0	0.00129	0.00138	0.00167
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00009	0.00009	0.00010
	B0	0.00034	0.00044	0.00076
	B1	0.00118	0.00128	0.00158
	B1	-0.00002	-0.00002	0.00000
	B1	0.00006	0.00006	0.00006
	B1	0.00038	0.00049	0.00083

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7R	(A1 * B0 * B1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * Y)	0.00022	0.00023	0.00024
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !Y)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7R	(A1 * B0 * B1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * B1 * Y)	0.00012	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B1 * !Y)	0.00013	0.00013	0.00014
	(!A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * B1 * !Y)	0.00013	0.00013	0.00014
	(!A1 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00020	-0.00020	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7R	(A0 * B0 * B1 * Y)	-0.00011	-0.00009	-0.00006
	(A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7R	(A0 * B0 * B1 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * Y)	0.00014	0.00015	0.00015
	(!A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7R	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * A1 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	0.00015	0.00016	0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7R	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00030	-0.00029	-0.00029
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	-0.00029	-0.00028	-0.00028
	(!A1 * !B1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * !B1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00015	-0.00015	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7R	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

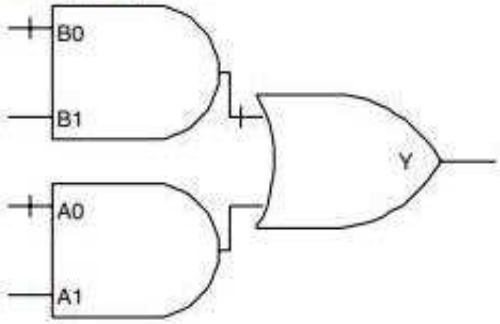
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P5H7R	(A0 * A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003

AO22X0P7H7R

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

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X0P7H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X0P7H7R	0.00062	0.00071	0.00074	0.00076	0.04827

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X0P7H7R	0.00000	0.21638	0.33732

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X0P7H7R	A0->Y (RR)	0.05277	0.20146	0.56202
	A1->Y (RR)	0.05208	0.20050	0.55811
	B0->Y (RR)	0.04708	0.19052	0.54059
	B1->Y (RR)	0.04534	0.18871	0.53690

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X0P7H7R	A0->Y (FF)	0.06756	0.19343	0.49165
	A1->Y (FF)	0.06492	0.18875	0.48403
	B0->Y (FF)	0.05989	0.18521	0.48434
	B1->Y (FF)	0.05604	0.17939	0.47550

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X0P7H7R	A0	0.00038	0.00044	0.00064
	A0	0.00010	0.00010	0.00010
	A0	-0.00006	-0.00006	-0.00003
	A0	0.00158	0.00166	0.00182
	A1	0.00037	0.00046	0.00073
	A1	0.00010	0.00010	0.00010
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00143	0.00153	0.00180
	B0	0.00038	0.00046	0.00069
	B0	0.00002	0.00002	0.00003
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00133	0.00142	0.00162
	B1	0.00040	0.00050	0.00082
	B1	0.00002	0.00002	0.00002
	B1	-0.00002	-0.00002	-0.00001
	B1	0.00120	0.00130	0.00161

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X0P7H7R	A0	0.00172	0.00177	0.00191
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00009	0.00009	0.00009
	A0	0.00047	0.00053	0.00068
	A1	0.00164	0.00170	0.00185
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00005	0.00006	0.00006
	A1	0.00052	0.00059	0.00078
	B0	0.00132	0.00141	0.00172
	B0	-0.00002	-0.00002	0.00000
	B0	0.00009	0.00009	0.00009
	B0	0.00037	0.00048	0.00081
	B1	0.00120	0.00131	0.00162
	B1	-0.00002	-0.00002	0.00000
	B1	0.00004	0.00005	0.00005
	B1	0.00041	0.00052	0.00087

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7R	(A1 * B0 * B1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * Y)	0.00022	0.00023	0.00024
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !Y)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7R	(A1 * B0 * B1 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * B1 * Y)	0.00012	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B1 * !Y)	0.00013	0.00013	0.00014
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * !Y)	0.00013	0.00013	0.00014
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00020	-0.00020	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7R	(A0 * B0 * B1 * Y)	-0.00011	-0.00009	-0.00006
	(A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7R	(A0 * B0 * B1 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7R	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B1 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * !B1 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	0.00015	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7R	(A0 * A1 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * !B1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !Y)	-0.00015	-0.00014	-0.00013
	(!A0 * A1 * !B1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00015	-0.00014	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7R	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00001	-0.00002	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00026	0.00026	0.00027
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

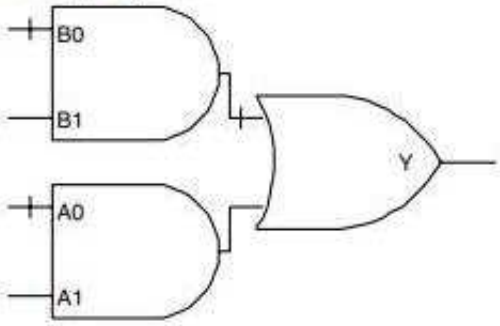
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X0P7H7R	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003

AO22X1H7R

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

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X1H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X1H7R	0.00063	0.00071	0.00074	0.00076	0.05761

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X1H7R	0.00000	0.23315	0.34827

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X1H7R	A0->Y (RR)	0.05182	0.20151	0.56431
	A1->Y (RR)	0.05108	0.20058	0.56022
	B0->Y (RR)	0.04603	0.19053	0.54214
	B1->Y (RR)	0.04434	0.18879	0.53893

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X1H7R	A0->Y (FF)	0.06721	0.19577	0.49974
	A1->Y (FF)	0.06454	0.19110	0.49235
	B0->Y (FF)	0.05940	0.18757	0.49274
	B1->Y (FF)	0.05570	0.18183	0.48385

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X1H7R	A0	0.00042	0.00048	0.00069
	A0	0.00009	0.00010	0.00010
	A0	-0.00005	-0.00005	-0.00003
	A0	0.00162	0.00169	0.00187
	A1	0.00041	0.00050	0.00078
	A1	0.00010	0.00010	0.00010
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00147	0.00156	0.00184
	B0	0.00042	0.00050	0.00072
	B0	0.00001	0.00002	0.00002
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00136	0.00145	0.00166
	B1	0.00043	0.00054	0.00087
	B1	0.00001	0.00002	0.00002
	B1	-0.00001	-0.00001	-0.00001
	B1	0.00122	0.00133	0.00165

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X1H7R	A0	0.00175	0.00180	0.00195
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00009	0.00009	0.00009
	A0	0.00050	0.00056	0.00075
	A1	0.00166	0.00172	0.00188
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00005	0.00005	0.00005
	A1	0.00056	0.00063	0.00081
	B0	0.00134	0.00144	0.00176
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00009	0.00009	0.00009
	B0	0.00041	0.00051	0.00086
	B1	0.00123	0.00133	0.00167
	B1	-0.00002	-0.00001	0.00000
	B1	0.00005	0.00005	0.00005
	B1	0.00044	0.00056	0.00093

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7R	(A1 * B0 * B1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * Y)	0.00022	0.00023	0.00024
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !Y)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7R	(A1 * B0 * B1 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B1 * !Y)	0.00013	0.00013	0.00014
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * !Y)	0.00013	0.00013	0.00014
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00020	-0.00020	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7R	(A0 * B0 * B1 * Y)	-0.00011	-0.00009	-0.00006
	(A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00018	0.00019	0.00020
	(!A0 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7R	(A0 * B0 * B1 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7R	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * A1 * !B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	0.00015	0.00016	0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7R	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * !B1 * !Y)	0.00021	0.00022	0.00022
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !Y)	-0.00015	-0.00015	-0.00013
	(!A0 * A1 * !B1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00015	-0.00015	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7R	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

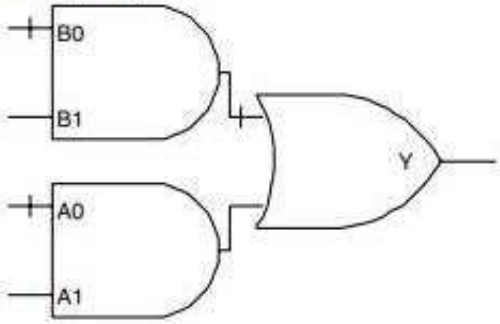
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1H7R	(A0 * A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003

AO22X1P4H7R

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

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X1P4H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X1P4H7R	0.00062	0.00072	0.00074	0.00077	0.06582

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X1P4H7R	0.00000	0.24904	0.35783

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X1P4H7R	A0->Y (RR)	0.05189	0.20263	0.56705
	A1->Y (RR)	0.05119	0.20184	0.56391
	B0->Y (RR)	0.04612	0.19173	0.54543
	B1->Y (RR)	0.04447	0.19011	0.54220

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X1P4H7R	A0->Y (FF)	0.06773	0.19735	0.50287
	A1->Y (FF)	0.06514	0.19277	0.49545
	B0->Y (FF)	0.05994	0.18926	0.49611
	B1->Y (FF)	0.05634	0.18361	0.48723

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X1P4H7R	A0	0.00046	0.00053	0.00072
	A0	0.00009	0.00009	0.00009
	A0	-0.00005	-0.00005	-0.00002
	A0	0.00166	0.00173	0.00192
	A1	0.00045	0.00055	0.00085
	A1	0.00009	0.00009	0.00009
	A1	-0.00001	-0.00001	0.00002
	A1	0.00151	0.00160	0.00191
	B0	0.00046	0.00055	0.00077
	B0	0.00001	0.00001	0.00002
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00140	0.00149	0.00171
	B1	0.00047	0.00058	0.00093
	B1	0.00001	0.00001	0.00002
	B1	-0.00001	-0.00001	0.00000
	B1	0.00127	0.00137	0.00171

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X1P4H7R	A0	0.00179	0.00185	0.00202
	A0	-0.00009	-0.00009	-0.00007
	A0	0.00008	0.00009	0.00009
	A0	0.00055	0.00061	0.00079
	A1	0.00171	0.00177	0.00195
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00005	0.00005	0.00005
	A1	0.00060	0.00068	0.00087
	B0	0.00139	0.00148	0.00183
	B0	-0.00001	-0.00001	0.00001
	B0	0.00008	0.00009	0.00009
	B0	0.00045	0.00056	0.00092
	B1	0.00128	0.00138	0.00173
	B1	-0.00001	-0.00001	-0.00000
	B1	0.00005	0.00005	0.00005
	B1	0.00049	0.00060	0.00099

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7R	(A1 * B0 * B1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * Y)	0.00022	0.00023	0.00024
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !Y)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7R	(A1 * B0 * B1 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B1 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00020	-0.00020	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7R	(A0 * B0 * B1 * Y)	-0.00011	-0.00009	-0.00006
	(A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * B1 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7R	(A0 * B0 * B1 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7R	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00028	0.00028	0.00029
	(!A1 * !B1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * !B1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	0.00014	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7R	(A0 * A1 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !Y)	-0.00015	-0.00014	-0.00013
	(!A0 * A1 * !B1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00015	-0.00014	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7R	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

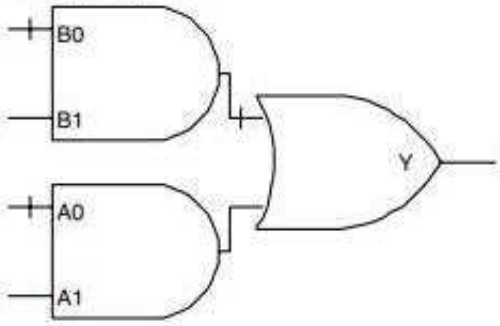
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X1P4H7R	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00026	-0.00025	-0.00025
	(!A1 * !B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003

AO22X2H7R

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

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X2H7R	0.00062	0.00073	0.00077	0.00075	0.07738

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X2H7R	0.00000	0.28896	0.37201

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X2H7R	A0->Y (RR)	0.05689	0.20997	0.57880
	A1->Y (RR)	0.05630	0.20952	0.57613
	B0->Y (RR)	0.05094	0.19929	0.55888
	B1->Y (RR)	0.04887	0.19759	0.55523

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X2H7R	A0->Y (FF)	0.07258	0.19713	0.48616
	A1->Y (FF)	0.07018	0.19279	0.47898
	B0->Y (FF)	0.06499	0.18947	0.48074
	B1->Y (FF)	0.06074	0.18346	0.47159

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X2H7R	A0	0.00065	0.00072	0.00095
	A0	0.00009	0.00009	0.00009
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00184	0.00191	0.00213
	A1	0.00064	0.00074	0.00108
	A1	0.00009	0.00009	0.00009
	A1	-0.00000	-0.00000	-0.00000
	A1	0.00170	0.00180	0.00214
	B0	0.00064	0.00073	0.00098
	B0	0.00000	0.00000	0.00001
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00158	0.00167	0.00191
	B1	0.00067	0.00078	0.00116
	B1	0.00000	0.00000	0.00001
	B1	-0.00000	-0.00000	0.00001
	B1	0.00143	0.00154	0.00192

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X2H7R	A0	0.00200	0.00205	0.00226
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00008	0.00008	0.00008
	A0	0.00077	0.00083	0.00105
	A1	0.00192	0.00198	0.00219
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00004	0.00004	0.00004
	A1	0.00081	0.00089	0.00111
	B0	0.00160	0.00170	0.00210
	B0	-0.00000	-0.00000	0.00002
	B0	0.00008	0.00008	0.00008
	B0	0.00067	0.00077	0.00118
	B1	0.00147	0.00158	0.00199
	B1	-0.00001	-0.00000	0.00002
	B1	0.00004	0.00004	0.00004
	B1	0.00071	0.00083	0.00125

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7R	(A1 * B0 * B1 * Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * B1 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00019	0.00020	0.00020
	(!A1 * !B1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * B1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !Y)	0.00019	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7R	(A1 * B0 * B1 * Y)	0.00009	0.00010	0.00010
	(A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * B0 * B1 * Y)	0.00012	0.00013	0.00013
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B1 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00020	-0.00019	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7R	(A0 * B0 * B1 * Y)	-0.00011	-0.00009	-0.00006
	(A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7R	(A0 * B0 * B1 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7R	(A0 * A1 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * !B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !Y)	0.00015	0.00015	0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7R	(A0 * A1 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	-0.00029	-0.00029	-0.00028
	(!A1 * !B1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * !B1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00015	-0.00014	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7R	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00001	-0.00002	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

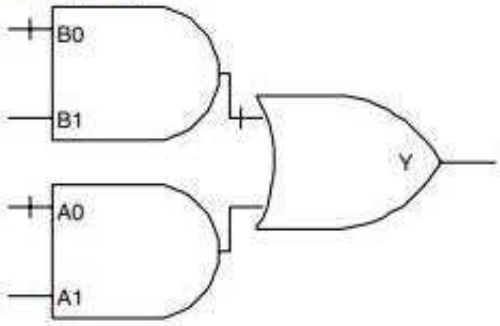
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X2H7R	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003

AO22X3H7R

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

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X3H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X3H7R	0.00071	0.00079	0.00084	0.00084	0.12042

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X3H7R	0.00000	0.39032	0.50512

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X3H7R	A0->Y (RR)	0.05100	0.20486	0.57493
	A1->Y (RR)	0.05003	0.20361	0.57028
	B0->Y (RR)	0.04572	0.19523	0.55639
	B1->Y (RR)	0.04380	0.19320	0.55190

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X3H7R	A0->Y (FF)	0.06843	0.20119	0.50991
	A1->Y (FF)	0.06569	0.19652	0.50238
	B0->Y (FF)	0.06179	0.19470	0.50540
	B1->Y (FF)	0.05785	0.18893	0.49649

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X3H7R	A0	0.00084	0.00093	0.00126
	A0	0.00010	0.00010	0.00010
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00218	0.00230	0.00263
	A1	0.00083	0.00096	0.00148
	A1	0.00010	0.00010	0.00010
	A1	0.00000	0.00000	0.00000
	A1	0.00203	0.00216	0.00267
	B0	0.00083	0.00094	0.00130
	B0	-0.00000	-0.00000	0.00000
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00188	0.00200	0.00236
	B1	0.00085	0.00100	0.00156
	B1	-0.00000	-0.00000	0.00000
	B1	0.00000	0.00000	0.00000
	B1	0.00172	0.00186	0.00243

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X3H7R	A0	0.00238	0.00246	0.00278
	A0	-0.00010	-0.00010	-0.00008
	A0	0.00009	0.00010	0.00010
	A0	0.00097	0.00105	0.00138
	A1	0.00227	0.00236	0.00268
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00005	0.00005	0.00005
	A1	0.00102	0.00111	0.00145
	B0	0.00194	0.00208	0.00266
	B0	0.00000	0.00001	0.00006
	B0	0.00009	0.00010	0.00010
	B0	0.00090	0.00103	0.00163
	B1	0.00180	0.00193	0.00253
	B1	0.00000	0.00000	0.00003
	B1	0.00005	0.00005	0.00005
	B1	0.00093	0.00106	0.00169

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7R	(A1 * B0 * B1 * Y)	-0.00012	-0.00010	-0.00007
	(A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * Y)	0.00024	0.00025	0.00026
	(!A1 * B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !Y)	0.00022	0.00023	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7R	(A1 * B0 * B1 * Y)	0.00011	0.00012	0.00012
	(A1 * B0 * B1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !B1 * !Y)	0.00015	0.00015	0.00016
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	-0.00022	-0.00022	-0.00020
	(!A1 * !B0 * B1 * !Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00022	-0.00022	-0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7R	(A0 * B0 * B1 * Y)	-0.00013	-0.00011	-0.00007
	(A0 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * Y)	0.00020	0.00021	0.00022
	(!A0 * B0 * B1 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7R	(A0 * B0 * B1 * Y)	0.00013	0.00013	0.00013
	(A0 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * B1 * Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !B1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7R	(A0 * A1 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	0.00017	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7R	(A0 * A1 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	-0.00031	-0.00030	-0.00029
	(!A1 * !B1 * !Y)	0.00025	0.00026	0.00026
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	-0.00016	-0.00016	-0.00014
	(!A0 * A1 * !B1 * !Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00016	-0.00016	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7R	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

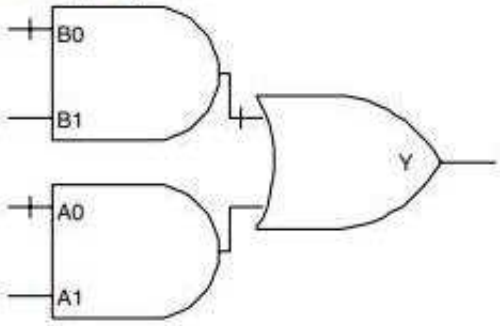
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X3H7R	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00028	-0.00027	-0.00026
	(!A1 * !B0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003

AO22X4H7R

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

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X4H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X4H7R	0.00079	0.00086	0.00092	0.00092	0.15417

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X4H7R	0.00000	0.50346	0.67295

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X4H7R	A0->Y (RR)	0.04999	0.20382	0.57273
	A1->Y (RR)	0.04842	0.20196	0.56755
	B0->Y (RR)	0.04447	0.19431	0.55536
	B1->Y (RR)	0.04269	0.19229	0.55095

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X4H7R	A0->Y (FF)	0.06723	0.19661	0.49549
	A1->Y (FF)	0.06402	0.19138	0.48723
	B0->Y (FF)	0.06038	0.19014	0.49087
	B1->Y (FF)	0.05672	0.18455	0.48201

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X4H7R	A0	0.00108	0.00120	0.00163
	A0	0.00012	0.00012	0.00013
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00260	0.00272	0.00315
	A1	0.00109	0.00125	0.00192
	A1	0.00012	0.00012	0.00012
	A1	0.00001	0.00001	0.00001
	A1	0.00234	0.00256	0.00324
	B0	0.00107	0.00122	0.00169
	B0	-0.00001	-0.00001	0.00000
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00224	0.00238	0.00286
	B1	0.00110	0.00128	0.00201
	B1	-0.00001	-0.00001	0.00000
	B1	0.00000	0.00001	0.00001
	B1	0.00204	0.00222	0.00296

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X4H7R	A0	0.00282	0.00294	0.00338
	A0	-0.00012	-0.00011	-0.00007
	A0	0.00011	0.00011	0.00011
	A0	0.00128	0.00138	0.00183
	A1	0.00266	0.00279	0.00324
	A1	-0.00011	-0.00011	-0.00009
	A1	0.00005	0.00005	0.00006
	A1	0.00130	0.00142	0.00189
	B0	0.00234	0.00250	0.00327
	B0	0.00001	0.00001	0.00006
	B0	0.00011	0.00011	0.00011
	B0	0.00116	0.00134	0.00214
	B1	0.00213	0.00234	0.00313
	B1	0.00000	0.00001	0.00005
	B1	0.00003	0.00005	0.00007
	B1	0.00122	0.00139	0.00221

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7R	(A1 * B0 * B1 * Y)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * B1 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * Y)	0.00024	0.00025	0.00026
	(!A1 * B0 * B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * B1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !Y)	0.00023	0.00023	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7R	(A1 * B0 * B1 * Y)	0.00014	0.00014	0.00015
	(A1 * B0 * B1 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * B1 * Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * B1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !Y)	-0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !Y)	-0.00022	-0.00021	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7R	(A0 * B0 * B1 * Y)	-0.00014	-0.00012	-0.00008
	(A0 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B1 * !Y)	-0.00000	-0.00001	-0.00000
	(!A0 * !B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * B1 * !Y)	0.00005	0.00005	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7R	(A0 * B0 * B1 * Y)	0.00014	0.00014	0.00014
	(A0 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * Y)	-0.00023	-0.00023	-0.00022
	(!A0 * B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7R	(A0 * A1 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * Y)	0.00035	0.00035	0.00035
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B1 * !Y)	-0.00000	-0.00001	-0.00000
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * !B1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * A1 * !B1 * !Y)	-0.00000	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7R	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	-0.00034	-0.00033	-0.00032
	(!A1 * !B1 * !Y)	0.00027	0.00027	0.00028
	(!A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A1 * !B1 * !Y)	0.00027	0.00027	0.00028
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7R	(A0 * A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * Y)	0.00031	0.00032	0.00032
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

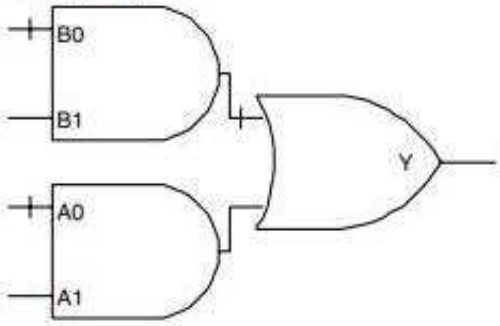
Cell Name	When	Power(pJ)		
		min	avg	max
AO22X4H7R	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * Y)	-0.00032	-0.00031	-0.00031
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00030	-0.00029	-0.00028
	(!A1 * !B0 * !Y)	0.00029	0.00030	0.00030
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !Y)	0.00029	0.00030	0.00030
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003

AO22X6H7R

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

Cell Description

The AO22 cell provides the logical OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	0
0	x	1	0	0
x	x	1	1	1
1	0	0	x	0
1	0	1	0	0
1	1	x	x	1

Footprint

Cell Name	Area
AO22X6H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AO22X6H7R	0.00079	0.00086	0.00091	0.00093	0.23175

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO22X6H7R	0.00000	0.65804	0.91678

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X6H7R	A0->Y (RR)	0.05837	0.21759	0.59733
	A1->Y (RR)	0.05681	0.21618	0.59270
	B0->Y (RR)	0.05268	0.20866	0.58098
	B1->Y (RR)	0.05093	0.20705	0.57626

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO22X6H7R	A0->Y (FF)	0.07967	0.21698	0.53056
	A1->Y (FF)	0.07657	0.21208	0.52246
	B0->Y (FF)	0.07284	0.21140	0.52930
	B1->Y (FF)	0.06933	0.20611	0.52060

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X6H7R	A0	0.00175	0.00191	0.00261
	A0	0.00008	0.00008	0.00008
	A0	-0.00002	-0.00002	0.00006
	A0	0.00321	0.00336	0.00406
	A1	0.00175	0.00196	0.00303
	A1	0.00008	0.00008	0.00008
	A1	0.00000	0.00004	0.00008
	A1	0.00292	0.00321	0.00427
	B0	0.00175	0.00193	0.00266
	B0	-0.00005	-0.00005	-0.00004
	B0	-0.00002	-0.00002	0.00000
	B0	0.00285	0.00302	0.00377
	B1	0.00177	0.00199	0.00311
	B1	-0.00006	-0.00005	-0.00004
	B1	0.00001	0.00004	0.00004
	B1	0.00264	0.00287	0.00399

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO22X6H7R	A0	0.00352	0.00364	0.00444
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00008	0.00008	0.00008
	A0	0.00202	0.00215	0.00296
	A1	0.00336	0.00349	0.00429
	A1	-0.00007	-0.00007	-0.00002
	A1	0.00002	0.00002	0.00002
	A1	0.00204	0.00219	0.00300
	B0	0.00300	0.00321	0.00447
	B0	0.00005	0.00005	0.00005
	B0	0.00008	0.00008	0.00008
	B0	0.00190	0.00212	0.00341
	B1	0.00284	0.00305	0.00431
	B1	0.00005	0.00005	0.00009
	B1	0.00001	0.00002	0.00002
	B1	0.00193	0.00216	0.00345

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7R	(A1 * B0 * B1 * Y)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * Y)	0.00024	0.00025	0.00026
	(!A1 * B0 * B1 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * B0 * B1 * Y)	-0.00000	-0.00001	-0.00000
	(!A1 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * B1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !Y)	0.00023	0.00023	0.00023

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7R	(A1 * B0 * B1 * Y)	0.00014	0.00015	0.00015
	(A1 * B0 * B1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * B1 * Y)	0.00018	0.00019	0.00019
	(!A1 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * B1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !Y)	-0.00022	-0.00021	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7R	(A0 * B0 * B1 * Y)	-0.00014	-0.00012	-0.00008
	(A0 * B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * B1 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7R	(A0 * B0 * B1 * Y)	0.00014	0.00014	0.00014
	(A0 * B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !Y)	-0.00006	-0.00005	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7R	(A0 * A1 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * Y)	0.00035	0.00035	0.00035
	(A0 * A1 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * Y)	0.00033	0.00034	0.00034
	(!A1 * !B1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * !B1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00001	0.00002
	(!A0 * A1 * !B1 * !Y)	0.00019	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7R	(A0 * A1 * B1 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * Y)	0.00002	0.00003	0.00004
	(A0 * A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * Y)	-0.00034	-0.00033	-0.00032
	(!A1 * !B1 * !Y)	0.00027	0.00027	0.00028
	(!A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * !B1 * !Y)	0.00027	0.00027	0.00028
	(!A0 * A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7R	(A0 * A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00003	0.00003
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO22X6H7R	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * Y)	-0.00030	-0.00029	-0.00028
	(!A1 * !B0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002

AO31X0P5H7R

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

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X0P5H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X0P5H7R	0.00060	0.00065	0.00071	0.00077	0.04252

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X0P5H7R	0.00000	0.20896	0.33037

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X0P5H7R	A0->Y (RR)	0.06219	0.20566	0.55788
	A1->Y (RR)	0.06168	0.20908	0.56733
	A2->Y (RR)	0.05860	0.20441	0.55832
	B0->Y (RR)	0.03179	0.17086	0.51001

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X0P5H7R	A0->Y (FF)	0.06144	0.18376	0.47548
	A1->Y (FF)	0.05870	0.17916	0.46706
	A2->Y (FF)	0.05511	0.17301	0.45792
	B0->Y (FF)	0.05584	0.17857	0.47460

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X0P5H7R	A0	0.00034	0.00039	0.00055
	A0	0.00008	0.00008	0.00008
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00140	0.00146	0.00160
	A1	0.00033	0.00039	0.00055
	A1	0.00008	0.00008	0.00008
	A1	-0.00006	-0.00006	-0.00003
	A1	0.00126	0.00132	0.00148
	A2	0.00034	0.00042	0.00067
	A2	0.00008	0.00008	0.00008
	A2	-0.00002	-0.00002	-0.00000
	A2	0.00115	0.00123	0.00148
	B0	0.00032	0.00044	0.00082
	B0	-0.00000	0.00001	0.00004
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00116	0.00127	0.00162

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X0P5H7R	A0	0.00149	0.00154	0.00169
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00009	0.00009	0.00009
	A0	0.00040	0.00045	0.00060
	A1	0.00141	0.00147	0.00161
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00006	0.00006	0.00006
	A1	0.00045	0.00051	0.00065
	A2	0.00129	0.00136	0.00153
	A2	-0.00008	-0.00008	-0.00008
	A2	0.00002	0.00002	0.00003
	A2	0.00044	0.00050	0.00067
	B0	0.00118	0.00129	0.00161
	B0	-0.00000	0.00000	0.00000
	B0	0.00009	0.00009	0.00009
	B0	0.00037	0.00049	0.00090

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7R	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00022	0.00022	0.00023
	(A1 * !A2 * B0 * Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00020	0.00020	0.00021
	(A1 * !A2 * !B0 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !A2 * !B0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7R	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * !A2 * B0 * Y)	0.00011	0.00011	0.00012
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00020	-0.00020	-0.00019
	(A1 * !A2 * !B0 * !Y)	0.00011	0.00012	0.00012
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00018
	(!A1 * B0 * Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * A2 * !B0 * !Y)	0.00011	0.00011	0.00012
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !A2 * !B0 * !Y)	0.00011	0.00012	0.00012
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7R	(A0 * A2 * B0 * Y)	-0.00011	-0.00009	-0.00006
	(A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00017	0.00017	0.00018
	(A0 * !A2 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00015	0.00015	0.00015
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A2 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A2 * !B0 * !Y)	0.00007	0.00007	0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7R	(A0 * A2 * B0 * Y)	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * B0 * Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(A0 * !A2 * !B0 * !Y)	0.00014	0.00015	0.00015
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A2 * B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A2 * !B0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7R	(A0 * A1 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00011
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * B0 * Y)	-0.00012	-0.00012	-0.00011
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7R	(A0 * A1 * B0 * Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7R	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00028	0.00028	0.00029

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P5H7R	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00028	-0.00028	-0.00028

AO31X0P7H7R

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

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X0P7H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X0P7H7R	0.00060	0.00066	0.00072	0.00080	0.04833

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X0P7H7R	0.00000	0.22195	0.33732

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X0P7H7R	A0->Y (RR)	0.06286	0.20771	0.56230
	A1->Y (RR)	0.06246	0.21138	0.57262
	A2->Y (RR)	0.05963	0.20694	0.56382
	B0->Y (RR)	0.03153	0.17197	0.51403

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X0P7H7R	A0->Y (FF)	0.06221	0.18592	0.48009
	A1->Y (FF)	0.05952	0.18144	0.47194
	A2->Y (FF)	0.05626	0.17556	0.46325
	B0->Y (FF)	0.05725	0.18136	0.47977

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X0P7H7R	A0	0.00036	0.00041	0.00056
	A0	0.00007	0.00007	0.00008
	A0	-0.00009	-0.00009	-0.00007
	A0	0.00144	0.00150	0.00164
	A1	0.00035	0.00041	0.00057
	A1	0.00007	0.00007	0.00008
	A1	-0.00006	-0.00005	-0.00004
	A1	0.00130	0.00136	0.00152
	A2	0.00036	0.00043	0.00069
	A2	0.00007	0.00007	0.00008
	A2	-0.00002	-0.00002	0.00001
	A2	0.00118	0.00128	0.00154
	B0	0.00034	0.00046	0.00084
	B0	-0.00000	-0.00000	0.00000
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00120	0.00132	0.00167

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X0P7H7R	A0	0.00154	0.00160	0.00175
	A0	-0.00008	-0.00007	-0.00007
	A0	0.00009	0.00009	0.00009
	A0	0.00043	0.00049	0.00066
	A1	0.00147	0.00152	0.00167
	A1	-0.00008	-0.00007	-0.00007
	A1	0.00005	0.00006	0.00006
	A1	0.00049	0.00054	0.00069
	A2	0.00135	0.00142	0.00159
	A2	-0.00008	-0.00007	-0.00007
	A2	0.00001	0.00002	0.00002
	A2	0.00047	0.00053	0.00074
	B0	0.00125	0.00135	0.00168
	B0	0.00000	0.00000	0.00001
	B0	0.00009	0.00009	0.00009
	B0	0.00040	0.00052	0.00093

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7R	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * Y)	0.00022	0.00022	0.00022
	(A1 * !A2 * B0 * Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00020	0.00020	0.00020
	(A1 * !A2 * !B0 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !A2 * !B0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00020	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7R	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00002
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * !A2 * B0 * Y)	0.00011	0.00011	0.00012
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00020	-0.00020	-0.00019
	(A1 * !A2 * !B0 * !Y)	0.00011	0.00012	0.00012
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * A2 * !B0 * !Y)	0.00011	0.00012	0.00012
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !A2 * !B0 * !Y)	0.00011	0.00012	0.00012
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7R	(A0 * A2 * B0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * A2 * B0 * Y)	-0.00001	-0.00002	-0.00001
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * Y)	0.00017	0.00017	0.00018
	(A0 * !A2 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00015	0.00015	0.00015
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * Y)	-0.00015	-0.00014	-0.00014
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * !Y)	-0.00015	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * !Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7R	(A0 * A2 * B0 * Y)	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * Y)	0.00001	0.00002	0.00001
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * B0 * Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(A0 * !A2 * !B0 * !Y)	0.00015	0.00015	0.00016
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A2 * B0 * Y)	0.00014	0.00015	0.00015
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A2 * !B0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7R	(A0 * A1 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00021	0.00022	0.00022
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00011
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * B0 * Y)	-0.00012	-0.00012	-0.00011
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7R	(A0 * A1 * B0 * Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7R	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00029	0.00030	0.00030

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X0P7H7R	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00030	-0.00030	-0.00029

AO31X1H7R

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

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X1H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X1H7R	0.00060	0.00065	0.00072	0.00080	0.05743

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X1H7R	0.00000	0.24037	0.34827

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X1H7R	A0->Y (RR)	0.06295	0.20854	0.56403
	A1->Y (RR)	0.06249	0.21233	0.57493
	A2->Y (RR)	0.05976	0.20803	0.56613
	B0->Y (RR)	0.03089	0.17198	0.51479

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X1H7R	A0->Y (FF)	0.06266	0.18895	0.48851
	A1->Y (FF)	0.05995	0.18448	0.48054
	A2->Y (FF)	0.05678	0.17872	0.47156
	B0->Y (FF)	0.05776	0.18457	0.48876

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X1H7R	A0	0.00042	0.00047	0.00062
	A0	0.00007	0.00007	0.00007
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00149	0.00155	0.00170
	A1	0.00041	0.00047	0.00064
	A1	0.00007	0.00007	0.00007
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00135	0.00141	0.00158
	A2	0.00041	0.00049	0.00076
	A2	0.00007	0.00007	0.00007
	A2	-0.00001	-0.00001	-0.00001
	A2	0.00124	0.00133	0.00160
	B0	0.00039	0.00051	0.00089
	B0	-0.00001	-0.00001	0.00000
	B0	-0.00001	-0.00001	-0.00000
	B0	0.00125	0.00136	0.00173

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X1H7R	A0	0.00159	0.00164	0.00180
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00009	0.00009	0.00009
	A0	0.00049	0.00054	0.00070
	A1	0.00151	0.00156	0.00173
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00005	0.00005	0.00005
	A1	0.00054	0.00060	0.00077
	A2	0.00139	0.00146	0.00164
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00001	0.00001	0.00001
	A2	0.00052	0.00058	0.00077
	B0	0.00129	0.00139	0.00174
	B0	0.00000	0.00001	0.00001
	B0	0.00009	0.00009	0.00009
	B0	0.00045	0.00058	0.00098

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7R	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00022	0.00022	0.00023
	(A1 * !A2 * B0 * Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00020	0.00020	0.00021
	(A1 * !A2 * !B0 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !A2 * !B0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7R	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * !A2 * B0 * Y)	0.00011	0.00011	0.00011
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00020	-0.00020	-0.00019
	(A1 * !A2 * !B0 * !Y)	0.00011	0.00012	0.00012
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00018
	(!A1 * B0 * Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * A2 * !B0 * !Y)	0.00011	0.00011	0.00011
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !A2 * !B0 * !Y)	0.00011	0.00011	0.00011
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7R	(A0 * A2 * B0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * Y)	0.00017	0.00017	0.00018
	(A0 * !A2 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00015	0.00015	0.00015
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A2 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * !Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7R	(A0 * A2 * B0 * Y)	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * B0 * Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(A0 * !A2 * !B0 * !Y)	0.00014	0.00015	0.00015
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A2 * B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * !B0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A2 * B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7R	(A0 * A1 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00011
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * A1 * B0 * Y)	-0.00012	-0.00012	-0.00011
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * A1 * !B0 * !Y)	0.00006	0.00007	0.00007

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7R	(A0 * A1 * B0 * Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7R	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00029	0.00030	0.00030

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1H7R	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00030	-0.00030	-0.00029

AO31X1P4H7R

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

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X1P4H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X1P4H7R	0.00060	0.00066	0.00072	0.00079	0.06575

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X1P4H7R	0.00000	0.25807	0.35783

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X1P4H7R	A0->Y (RR)	0.06207	0.20866	0.56563
	A1->Y (RR)	0.06167	0.21256	0.57757
	A2->Y (RR)	0.05885	0.20821	0.56794
	B0->Y (RR)	0.02976	0.17169	0.51603

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X1P4H7R	A0->Y (FF)	0.06188	0.18902	0.48972
	A1->Y (FF)	0.05923	0.18461	0.48173
	A2->Y (FF)	0.05605	0.17880	0.47279
	B0->Y (FF)	0.05685	0.18456	0.48984

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X1P4H7R	A0	0.00043	0.00048	0.00064
	A0	0.00006	0.00006	0.00007
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00149	0.00155	0.00171
	A1	0.00042	0.00048	0.00067
	A1	0.00006	0.00006	0.00007
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00135	0.00141	0.00160
	A2	0.00042	0.00050	0.00080
	A2	0.00006	0.00006	0.00007
	A2	-0.00001	-0.00001	-0.00001
	A2	0.00123	0.00133	0.00163
	B0	0.00040	0.00052	0.00092
	B0	-0.00001	-0.00001	0.00000
	B0	-0.00001	-0.00001	-0.00001
	B0	0.00125	0.00136	0.00175

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X1P4H7R	**A0**	0.00158	0.00165	0.00183
	A0	-0.00007	-0.00006	-0.00006
	A0	0.00008	0.00008	0.00008
	A0	0.00051	0.00056	0.00074
	A1	0.00152	0.00158	0.00175
	A1	-0.00007	-0.00006	-0.00006
	A1	0.00005	0.00005	0.00005
	A1	0.00056	0.00062	0.00079
	A2	0.00141	0.00147	0.00167
	A2	-0.00007	-0.00006	-0.00006
	A2	0.00001	0.00001	0.00001
	A2	0.00054	0.00061	0.00080
	B0	0.00129	0.00141	0.00177
	B0	0.00000	0.00001	0.00004
	B0	0.00008	0.00008	0.00008
	B0	0.00047	0.00060	0.00102

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7R	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00022	0.00022	0.00022
	(A1 * !A2 * B0 * Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00020	0.00020	0.00020
	(A1 * !A2 * !B0 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00021
	(!A1 * B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00020	0.00021	0.00021
	(!A1 * A2 * !B0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !A2 * !B0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00020	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7R	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00002
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * !A2 * B0 * Y)	0.00011	0.00011	0.00012
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00020	-0.00020	-0.00019
	(A1 * !A2 * !B0 * !Y)	0.00011	0.00012	0.00012
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * A2 * !B0 * !Y)	0.00011	0.00011	0.00012
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !A2 * !B0 * !Y)	0.00011	0.00012	0.00011
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7R	(A0 * A2 * B0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * A2 * B0 * Y)	-0.00001	-0.00002	-0.00001
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * Y)	0.00017	0.00017	0.00018
	(A0 * !A2 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00015	0.00015	0.00015
	(A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * !Y)	-0.00015	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * !Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7R	(A0 * A2 * B0 * Y)	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * Y)	0.00001	0.00002	0.00001
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * B0 * Y)	0.00014	0.00014	0.00015
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(A0 * !A2 * !B0 * !Y)	0.00015	0.00015	0.00016
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A2 * B0 * Y)	0.00014	0.00014	0.00015
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A2 * !B0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * !B0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A2 * B0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7R	(A0 * A1 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00021	0.00022	0.00022
	(!A1 * B0 * Y)	-0.00012	-0.00012	-0.00011
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * B0 * Y)	-0.00012	-0.00012	-0.00011
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7R	(A0 * A1 * B0 * Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00007	-0.00006	-0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7R	(A0 * A1 * A2 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00029	0.00030	0.00030

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X1P4H7R	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * A2 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00030	-0.00029	-0.00029

AO31X2H7R

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

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X2H7R	0.00074	0.00068	0.00073	0.00082	0.08481

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X2H7R	0.00000	0.30711	0.37435

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X2H7R	A0->Y (RR)	0.07603	0.22664	0.59132
	A1->Y (RR)	0.07224	0.22861	0.60311
	A2->Y (RR)	0.06945	0.22467	0.59518
	B0->Y (RR)	0.03542	0.18331	0.53887

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X2H7R	A0->Y (FF)	0.07569	0.20667	0.51336
	A1->Y (FF)	0.06999	0.19985	0.50367
	A2->Y (FF)	0.06655	0.19448	0.49549
	B0->Y (FF)	0.06981	0.20326	0.51755

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X2H7R	A0	0.00070	0.00076	0.00096
	A0	0.00006	0.00006	0.00006
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00186	0.00193	0.00212
	A1	0.00071	0.00078	0.00104
	A1	0.00005	0.00006	0.00006
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00171	0.00178	0.00203
	A2	0.00071	0.00080	0.00120
	A2	0.00005	0.00006	0.00006
	A2	-0.00000	-0.00000	0.00003
	A2	0.00157	0.00167	0.00206
	B0	0.00075	0.00088	0.00129
	B0	-0.00002	-0.00002	0.00000
	B0	-0.00000	-0.00000	0.00000
	B0	0.00167	0.00180	0.00222

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X2H7R	A0	0.00200	0.00207	0.00230
	A0	-0.00006	-0.00006	-0.00004
	A0	0.00008	0.00008	0.00008
	A0	0.00082	0.00089	0.00112
	A1	0.00186	0.00193	0.00217
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00004	0.00004	0.00004
	A1	0.00084	0.00090	0.00115
	A2	0.00176	0.00184	0.00208
	A2	-0.00006	-0.00006	-0.00005
	A2	0.00000	0.00000	0.00001
	A2	0.00086	0.00093	0.00118
	B0	0.00168	0.00180	0.00225
	B0	0.00000	0.00002	0.00006
	B0	0.00008	0.00008	0.00008
	B0	0.00076	0.00090	0.00137

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7R	(A1 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00026	0.00026	0.00026
	(A1 * !A2 * B0 * Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00018
	(A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B0 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00016	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7R	(A1 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * !A2 * B0 * Y)	0.00011	0.00011	0.00011
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00024	-0.00023	-0.00022
	(A1 * !A2 * !B0 * !Y)	0.00018	0.00018	0.00019
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A1 * B0 * Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * A2 * !B0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A1 * !A2 * !B0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7R	(A0 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00006
	(A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * Y)	0.00021	0.00022	0.00022
	(A0 * !A2 * B0 * Y)	-0.00012	-0.00012	-0.00011
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00019	0.00019	0.00020
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	0.00017	0.00018	0.00018
	(!A0 * A2 * B0 * Y)	-0.00012	-0.00011	-0.00011
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A2 * B0 * Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * B0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A2 * !B0 * !Y)	0.00008	0.00009	0.00009

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7R	(A0 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * B0 * Y)	0.00011	0.00012	0.00012
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * !A2 * !B0 * !Y)	0.00014	0.00014	0.00015
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A2 * B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A2 * B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * !Y)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7R	(A0 * A1 * B0 * Y)	-0.00009	-0.00008	-0.00005
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * A1 * B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * A1 * !B0 * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7R	(A0 * A1 * B0 * Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * Y)	0.00011	0.00011	0.00012
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * Y)	0.00011	0.00011	0.00012
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7R	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00030	0.00030	0.00031

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X2H7R	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00030	-0.00030	-0.00030

AO31X3H7R

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

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X3H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X3H7R	0.00082	0.00075	0.00080	0.00088	0.12041

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X3H7R	0.00000	0.41326	0.49018

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X3H7R	A0->Y (RR)	0.06750	0.21837	0.58366
	A1->Y (RR)	0.06467	0.22072	0.59345
	A2->Y (RR)	0.06153	0.21604	0.58398
	B0->Y (RR)	0.03094	0.17785	0.53142

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X3H7R	A0->Y (FF)	0.06837	0.19961	0.50628
	A1->Y (FF)	0.06363	0.19351	0.49703
	A2->Y (FF)	0.05985	0.18778	0.48833
	B0->Y (FF)	0.06280	0.19608	0.50889

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X3H7R	A0	0.00084	0.00092	0.00119
	A0	0.00007	0.00007	0.00007
	A0	-0.00010	-0.00009	-0.00005
	A0	0.00214	0.00224	0.00250
	A1	0.00085	0.00094	0.00129
	A1	0.00007	0.00007	0.00007
	A1	-0.00005	-0.00005	-0.00001
	A1	0.00193	0.00205	0.00240
	A2	0.00085	0.00097	0.00150
	A2	0.00006	0.00007	0.00007
	A2	0.00000	0.00000	0.00000
	A2	0.00181	0.00195	0.00247
	B0	0.00089	0.00105	0.00162
	B0	-0.00004	-0.00003	0.00000
	B0	0.00000	0.00000	0.00001
	B0	0.00191	0.00207	0.00264

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X3H7R	A0	0.00228	0.00238	0.00271
	A0	-0.00007	-0.00007	-0.00004
	A0	0.00009	0.00009	0.00010
	A0	0.00097	0.00105	0.00138
	A1	0.00215	0.00223	0.00256
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00005	0.00005	0.00005
	A1	0.00100	0.00109	0.00143
	A2	0.00201	0.00211	0.00246
	A2	-0.00007	-0.00007	-0.00006
	A2	-0.00000	-0.00000	0.00000
	A2	0.00091	0.00108	0.00144
	B0	0.00194	0.00208	0.00267
	B0	0.00003	0.00003	0.00006
	B0	0.00009	0.00009	0.00010
	B0	0.00093	0.00107	0.00171

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7R	(A1 * A2 * B0 * Y)	-0.00011	-0.00010	-0.00007
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * Y)	0.00027	0.00028	0.00028
	(A1 * !A2 * B0 * Y)	-0.00014	-0.00014	-0.00013
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * Y)	0.00025	0.00026	0.00026
	(!A1 * A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7R	(A1 * A2 * B0 * Y)	0.00011	0.00011	0.00011
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B0 * Y)	0.00013	0.00014	0.00014
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00025	-0.00024	-0.00023
	(A1 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00021
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * B0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * A2 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7R	(A0 * A2 * B0 * Y)	-0.00011	-0.00010	-0.00007
	(A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * Y)	0.00021	0.00022	0.00022
	(A0 * !A2 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A2 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A2 * !B0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A2 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A2 * B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A2 * !B0 * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7R	(A0 * A2 * B0 * Y)	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * B0 * Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A2 * !B0 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A2 * B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A2 * B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A2 * !B0 * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7R	(A0 * A1 * B0 * Y)	-0.00011	-0.00010	-0.00007
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * A1 * B0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7R	(A0 * A1 * B0 * Y)	0.00011	0.00011	0.00011
	(A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7R	(A0 * A1 * A2 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * Y)	0.00000	0.00001	0.00000
	(A0 * A1 * A2 * Y)	0.00032	0.00032	0.00033

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X3H7R	(A0 * A1 * A2 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * A2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * Y)	-0.00032	-0.00032	-0.00032

AO31X4H7R

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

Cell Description

AO

Y=(A0 & A1 & A2)B0

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	0
x	x	x	1	1
1	0	x	0	0
1	1	0	0	0
1	1	1	x	1

Footprint

Cell Name	Area
AO31X4H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AO31X4H7R	0.00090	0.00083	0.00089	0.00095	0.15393

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AO31X4H7R	0.00000	0.51681	0.61631

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X4H7R	A0->Y (RR)	0.06302	0.21340	0.57708
	A1->Y (RR)	0.06043	0.21573	0.58628
	A2->Y (RR)	0.05733	0.21094	0.57590
	B0->Y (RR)	0.02847	0.17425	0.52506

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AO31X4H7R	A0->Y (FF)	0.06482	0.19541	0.49983
	A1->Y (FF)	0.06039	0.18951	0.49108
	A2->Y (FF)	0.05659	0.18372	0.48177
	B0->Y (FF)	0.05902	0.19148	0.50127

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X4H7R	A0	0.00098	0.00108	0.00142
	A0	0.00008	0.00008	0.00008
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00247	0.00257	0.00291
	A1	0.00099	0.00110	0.00155
	A1	0.00007	0.00008	0.00008
	A1	-0.00005	-0.00005	-0.00001
	A1	0.00221	0.00236	0.00281
	A2	0.00099	0.00113	0.00181
	A2	0.00007	0.00008	0.00008
	A2	0.00000	0.00001	0.00006
	A2	0.00204	0.00222	0.00288
	B0	0.00103	0.00122	0.00195
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00000	0.00001	0.00001
	B0	0.00214	0.00234	0.00308

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AO31X4H7R	A0	0.00264	0.00274	0.00316
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00011	0.00011	0.00011
	A0	0.00113	0.00123	0.00166
	A1	0.00246	0.00256	0.00299
	A1	-0.00008	-0.00008	-0.00005
	A1	0.00005	0.00005	0.00005
	A1	0.00117	0.00127	0.00171
	A2	0.00230	0.00241	0.00287
	A2	-0.00008	-0.00008	-0.00007
	A2	-0.00001	-0.00001	-0.00000
	A2	0.00115	0.00128	0.00174
	B0	0.00221	0.00238	0.00314
	B0	0.00004	0.00005	0.00005
	B0	0.00011	0.00011	0.00011
	B0	0.00110	0.00127	0.00208

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7R	(A1 * A2 * B0 * Y)	-0.00013	-0.00011	-0.00009
	(A1 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * Y)	0.00030	0.00030	0.00031
	(A1 * !A2 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00001	-0.00000
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * B0 * Y)	0.00027	0.00027	0.00027
	(A1 * !A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00027	0.00028	0.00028
	(!A1 * A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00021	0.00022	0.00023
	(!A1 * !A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B0 * !Y)	0.00020	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7R	(A1 * A2 * B0 * Y)	0.00013	0.00013	0.00013
	(A1 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * B0 * Y)	0.00016	0.00016	0.00016
	(A1 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	-0.00027	-0.00026	-0.00025
	(A1 * !A2 * !B0 * !Y)	0.00023	0.00023	0.00023
	(A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00017
	(!A1 * B0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00028	-0.00027	-0.00026
	(!A1 * A2 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !A2 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00021	-0.00020	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7R	(A0 * A2 * B0 * Y)	-0.00013	-0.00011	-0.00009
	(A0 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * Y)	0.00024	0.00024	0.00025
	(A0 * !A2 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00022	0.00022	0.00022
	(A0 * !A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A2 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00022	0.00023	0.00029
	(!A0 * A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00001	-0.00000
	(!A0 * A2 * !B0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * A2 * !B0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A2 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A2 * !B0 * !Y)	0.00006	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7R	(A0 * A2 * B0 * Y)	0.00013	0.00013	0.00013
	(A0 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A2 * B0 * Y)	0.00016	0.00016	0.00017
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * Y)	-0.00022	-0.00021	-0.00020
	(A0 * !A2 * !B0 * !Y)	0.00019	0.00020	0.00021
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A2 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * A2 * B0 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * A2 * !B0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00001	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * A2 * !B0 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A2 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7R	(A0 * A1 * B0 * Y)	-0.00013	-0.00011	-0.00009
	(A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * Y)	-0.00000	-0.00001	-0.00000
	(!A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * !Y)	-0.00000	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !Y)	0.00002	0.00003	0.00004
	(!A0 * A1 * !B0 * !Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7R	(A0 * A1 * B0 * Y)	0.00013	0.00013	0.00013
	(A0 * A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * B0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00023	-0.00021	-0.00019
	(!A0 * A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !Y)	-0.00004	-0.00003	-0.00002
	(!A0 * A1 * !B0 * !Y)	-0.00006	-0.00005	-0.00005

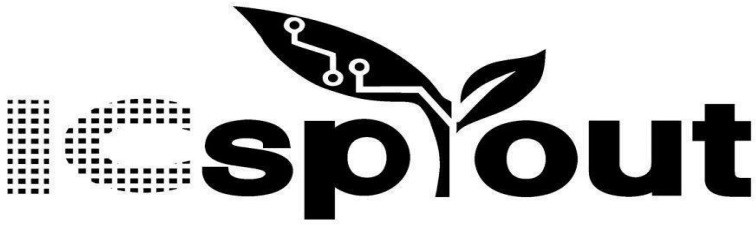
Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7R	(A0 * A1 * A2 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * Y)	0.00034	0.00034	0.00034

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

Cell Name	When	Power(pJ)		
		min	avg	max
AO31X4H7R	(A0 * A1 * A2 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * Y)	0.00003	0.00003	0.00004
	(A0 * A1 * A2 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * Y)	-0.00034	-0.00034	-0.00034

AOA211X0P5H7R



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

Truth Table

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

Footprint

Cell Name	Area
AOA211X0P5H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X0P5H7R	0.00069	0.00070	0.00075	0.00073	0.04256

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X0P5H7R	0.00000	0.17607	0.23994

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X0P5H7R	A0->Y (RR)	0.06730	0.21621	0.57619
	A1->Y (RR)	0.06807	0.21293	0.56674
	B0->Y (RR)	0.04653	0.18924	0.53534
	C0->Y (RR)	0.05852	0.20534	0.56190

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X0P5H7R	A0->Y (FF)	0.06461	0.18663	0.47874
	A1->Y (FF)	0.06635	0.19059	0.48647
	B0->Y (FF)	0.06006	0.18454	0.48204
	C0->Y (FF)	0.03512	0.15231	0.43687

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X0P5H7R	A0	0.00034	0.00039	0.00051
	A0	0.00008	0.00008	0.00008
	A0	-0.00006	-0.00005	-0.00005
	A0	0.00139	0.00144	0.00156
	A1	0.00034	0.00038	0.00049
	A1	0.00008	0.00008	0.00009
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00148	0.00153	0.00163
	B0	0.00034	0.00041	0.00060
	B0	0.00002	0.00002	0.00003
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00127	0.00134	0.00150
	C0	0.00035	0.00047	0.00082
	C0	0.00008	0.00008	0.00008
	C0	-0.00000	0.00000	0.00002
	C0	0.00111	0.00122	0.00150

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X0P5H7R	A0	0.00156	0.00161	0.00174
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00005	0.00005	0.00006
	A0	0.00050	0.00055	0.00068
	A1	0.00164	0.00169	0.00183
	A1	-0.00009	-0.00008	-0.00008
	A1	0.00009	0.00009	0.00009
	A1	0.00050	0.00055	0.00068
	B0	0.00132	0.00141	0.00170
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00009	0.00009	0.00009
	B0	0.00042	0.00053	0.00084
	C0	0.00129	0.00141	0.00178
	C0	-0.00002	-0.00002	-0.00002
	C0	-0.00000	0.00000	0.00001
	C0	0.00047	0.00058	0.00095

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7R	(A1 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00021	0.00021	0.00022
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00009
	(!A1 * !B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00014
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00009

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7R	(A1 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00021	-0.00021	-0.00020
	(A1 * B0 * !C0 * !Y)	0.00010	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00020
	(A1 * !B0 * !C0 * !Y)	0.00014	0.00015	0.00016
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00014
	(!A1 * B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * C0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * !Y)	-0.00009	-0.00008	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7R	(A0 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00019	0.00019	0.00020
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00018	0.00019	0.00019
	(A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7R	(A0 * B0 * C0 * Y)	0.00010	0.00011	0.00011
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * B0 * !C0 * !Y)	0.00010	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7R	(A0 * A1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00026	0.00027	0.00027
	(A0 * A1 * !C0 * !Y)	-0.00012	-0.00010	-0.00008
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !C0 * !Y)	0.00018	0.00018	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7R	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !C0 * !Y)	0.00011	0.00012	0.00012
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00018	-0.00016	-0.00014
	(!A0 * !C0 * !Y)	0.00014	0.00015	0.00016
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * !Y)	-0.00018	-0.00017	-0.00014

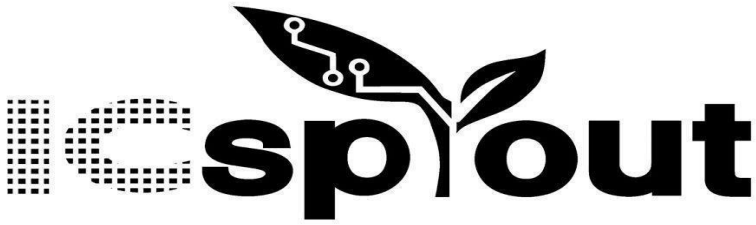
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7R	(A0 * !A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00005	0.00005	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P5H7R	(A0 * !A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

AOA211X0P7H7R



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

Truth Table

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

Footprint

Cell Name	Area
AOA211X0P7H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X0P7H7R	0.00069	0.00070	0.00075	0.00073	0.04827

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X0P7H7R	0.00000	0.18639	0.25762

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X0P7H7R	A0->Y (RR)	0.06667	0.21635	0.57817
	A1->Y (RR)	0.06743	0.21298	0.56778
	B0->Y (RR)	0.04581	0.18911	0.53639
	C0->Y (RR)	0.05795	0.20551	0.56372

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X0P7H7R	A0->Y (FF)	0.06414	0.18680	0.47950
	A1->Y (FF)	0.06585	0.19074	0.48742
	B0->Y (FF)	0.05956	0.18474	0.48307
	C0->Y (FF)	0.03432	0.15205	0.43728

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X0P7H7R	A0	0.00036	0.00041	0.00055
	A0	0.00008	0.00008	0.00008
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00141	0.00146	0.00159
	A1	0.00036	0.00041	0.00051
	A1	0.00008	0.00008	0.00008
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00149	0.00155	0.00165
	B0	0.00036	0.00043	0.00064
	B0	0.00002	0.00002	0.00003
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00129	0.00136	0.00152
	C0	0.00038	0.00049	0.00084
	C0	0.00008	0.00008	0.00008
	C0	0.00000	0.00000	0.00001
	C0	0.00115	0.00124	0.00153

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X0P7H7R	A0	0.00158	0.00163	0.00177
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00005	0.00005	0.00005
	A0	0.00052	0.00058	0.00072
	A1	0.00166	0.00171	0.00186
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00008	0.00009	0.00009
	A1	0.00053	0.00057	0.00072
	B0	0.00134	0.00143	0.00173
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00008	0.00009	0.00009
	B0	0.00045	0.00055	0.00087
	C0	0.00131	0.00143	0.00181
	C0	-0.00002	-0.00002	-0.00002
	C0	-0.00000	-0.00000	0.00001
	C0	0.00050	0.00061	0.00099

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7R	(A1 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00021	0.00021	0.00022
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00009
	(!A1 * !B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00014
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00009

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7R	(A1 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * B0 * !C0 * !Y)	0.00010	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !C0 * !Y)	0.00014	0.00015	0.00016
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00014
	(!A1 * B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * C0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * !Y)	-0.00009	-0.00008	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7R	(A0 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00019	0.00019	0.00020
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00018	0.00019	0.00019
	(A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7R	(A0 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * B0 * !C0 * !Y)	0.00010	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7R	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !C0 * !Y)	-0.00012	-0.00010	-0.00008
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !C0 * !Y)	0.00018	0.00018	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7R	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !C0 * !Y)	0.00011	0.00012	0.00012
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00018	-0.00016	-0.00014
	(!A0 * !C0 * !Y)	0.00014	0.00015	0.00016
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7R	(A0 * !A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * !B0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00005	0.00005	0.00005

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X0P7H7R	(A0 * !A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

AOA211X1H7R

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

Truth Table

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

Footprint

Cell Name	Area
AOA211X1H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X1H7R	0.00069	0.00070	0.00075	0.00073	0.05741

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X1H7R	0.00000	0.20150	0.28183

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X1H7R	A0->Y (RR)	0.06600	0.21646	0.57842
	A1->Y (RR)	0.06676	0.21299	0.56833
	B0->Y (RR)	0.04501	0.18892	0.53701
	C0->Y (RR)	0.05722	0.20570	0.56468

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X1H7R	A0->Y (FF)	0.06391	0.18903	0.48675
	A1->Y (FF)	0.06562	0.19296	0.49485
	B0->Y (FF)	0.05938	0.18709	0.49129
	C0->Y (FF)	0.03360	0.15370	0.44398

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X1H7R	A0	0.00040	0.00045	0.00059
	A0	0.00007	0.00007	0.00008
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00143	0.00149	0.00163
	A1	0.00040	0.00044	0.00055
	A1	0.00007	0.00007	0.00008
	A1	-0.00008	-0.00008	-0.00006
	A1	0.00152	0.00158	0.00169
	B0	0.00040	0.00047	0.00068
	B0	0.00001	0.00002	0.00002
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00132	0.00139	0.00155
	C0	0.00041	0.00052	0.00089
	C0	0.00007	0.00007	0.00008
	C0	0.00000	0.00001	0.00002
	C0	0.00118	0.00127	0.00157

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X1H7R	A0	0.00160	0.00166	0.00181
	A0	-0.00008	-0.00007	-0.00006
	A0	0.00005	0.00005	0.00005
	A0	0.00056	0.00062	0.00077
	A1	0.00169	0.00174	0.00190
	A1	-0.00008	-0.00007	-0.00007
	A1	0.00008	0.00008	0.00008
	A1	0.00056	0.00061	0.00077
	B0	0.00137	0.00146	0.00178
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00008	0.00008	0.00008
	B0	0.00048	0.00059	0.00092
	C0	0.00134	0.00146	0.00186
	C0	-0.00002	-0.00002	-0.00001
	C0	-0.00001	-0.00001	0.00000
	C0	0.00053	0.00065	0.00104

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7R	(A1 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00021	0.00021	0.00022
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00009
	(!A1 * !B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00014
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00009

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7R	(A1 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00021	-0.00021	-0.00020
	(A1 * B0 * !C0 * !Y)	0.00010	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !C0 * !Y)	0.00014	0.00015	0.00016
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00014
	(!A1 * B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * C0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00009	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * !Y)	-0.00009	-0.00008	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7R	(A0 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00006
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00019	0.00019	0.00020
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00018	0.00019	0.00019
	(A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7R	(A0 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * B0 * !C0 * !Y)	0.00010	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00014

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7R	(A0 * A1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00026	0.00027	0.00027
	(A0 * A1 * !C0 * !Y)	-0.00012	-0.00010	-0.00008
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !C0 * !Y)	0.00018	0.00019	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7R	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !C0 * !Y)	0.00011	0.00012	0.00012
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00018	-0.00016	-0.00014
	(!A0 * !C0 * !Y)	0.00014	0.00015	0.00016
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * !Y)	-0.00018	-0.00017	-0.00014

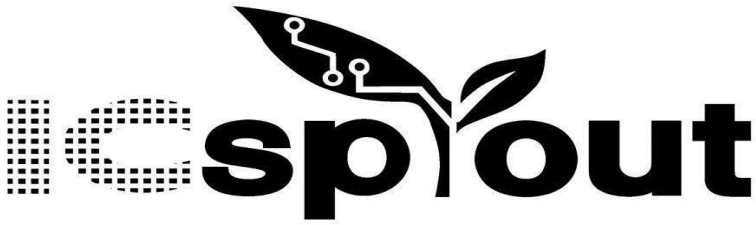
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7R	(A0 * !A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * !B0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00005	0.00005	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1H7R	(A0 * !A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

AOA211X1P4H7R



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

Truth Table

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

Footprint

Cell Name	Area
AOA211X1P4H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X1P4H7R	0.00069	0.00070	0.00075	0.00074	0.06572

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X1P4H7R	0.00000	0.21559	0.30583

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X1P4H7R	A0->Y (RR)	0.06601	0.21785	0.58199
	A1->Y (RR)	0.06678	0.21433	0.57269
	B0->Y (RR)	0.04479	0.18993	0.54012
	C0->Y (RR)	0.05727	0.20722	0.56856

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X1P4H7R	A0->Y (FF)	0.06404	0.19036	0.49038
	A1->Y (FF)	0.06573	0.19422	0.49779
	B0->Y (FF)	0.05948	0.18846	0.49425
	C0->Y (FF)	0.03317	0.15433	0.44611

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X1P4H7R	A0	0.00043	0.00048	0.00064
	A0	0.00007	0.00007	0.00007
	A0	-0.00004	-0.00004	-0.00002
	A0	0.00145	0.00151	0.00166
	A1	0.00042	0.00047	0.00062
	A1	0.00007	0.00007	0.00007
	A1	-0.00008	-0.00008	-0.00006
	A1	0.00154	0.00160	0.00172
	B0	0.00042	0.00050	0.00070
	B0	0.00001	0.00001	0.00001
	B0	-0.00005	-0.00004	-0.00003
	B0	0.00133	0.00141	0.00158
	C0	0.00044	0.00055	0.00093
	C0	0.00007	0.00007	0.00007
	C0	0.00000	0.00001	0.00002
	C0	0.00119	0.00129	0.00161

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X1P4H7R	A0	0.00164	0.00170	0.00186
	A0	-0.00007	-0.00007	-0.00005
	A0	0.00003	0.00004	0.00004
	A0	0.00061	0.00066	0.00083
	A1	0.00173	0.00178	0.00195
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00008	0.00008	0.00008
	A1	0.00061	0.00066	0.00083
	B0	0.00141	0.00150	0.00184
	B0	-0.00001	-0.00001	0.00001
	B0	0.00008	0.00008	0.00008
	B0	0.00053	0.00064	0.00099
	C0	0.00138	0.00150	0.00192
	C0	-0.00001	-0.00001	0.00000
	C0	-0.00001	-0.00001	0.00000
	C0	0.00057	0.00069	0.00111

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7R	(A1 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00021	0.00021	0.00022
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00014
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * !C0 * !Y)	0.00008	0.00009	0.00009

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7R	(A1 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00021	-0.00021	-0.00020
	(A1 * B0 * !C0 * !Y)	0.00010	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !C0 * !Y)	0.00014	0.00015	0.00016
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * C0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7R	(A0 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00019	0.00019	0.00020
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00018	0.00019	0.00019
	(A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7R	(A0 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * B0 * !C0 * !Y)	0.00010	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00014

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7R	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00026	0.00027	0.00027
	(A0 * A1 * !C0 * !Y)	-0.00012	-0.00010	-0.00008
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !C0 * !Y)	0.00018	0.00018	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7R	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !C0 * !Y)	0.00011	0.00012	0.00012
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00018	-0.00016	-0.00014
	(!A0 * !C0 * !Y)	0.00014	0.00015	0.00016
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * !Y)	-0.00018	-0.00017	-0.00014

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7R	(A0 * !A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00005	0.00005	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X1P4H7R	(A0 * !A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

AOA211X2H7R

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

Truth Table

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

Footprint

Cell Name	Area
AOA211X2H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X2H7R	0.00068	0.00068	0.00075	0.00074	0.07715

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X2H7R	0.00000	0.23670	0.34365

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X2H7R	A0->Y (RR)	0.06453	0.21685	0.58128
	A1->Y (RR)	0.06551	0.21343	0.57159
	B0->Y (RR)	0.04428	0.19002	0.54108
	C0->Y (RR)	0.05628	0.20661	0.56825

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X2H7R	A0->Y (FF)	0.06267	0.18805	0.48446
	A1->Y (FF)	0.06441	0.19203	0.49225
	B0->Y (FF)	0.05913	0.18763	0.49081
	C0->Y (FF)	0.03239	0.15218	0.43968

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X2H7R	A0	0.00046	0.00052	0.00070
	A0	0.00006	0.00006	0.00006
	A0	-0.00004	-0.00004	-0.00001
	A0	0.00146	0.00153	0.00171
	A1	0.00046	0.00051	0.00065
	A1	0.00006	0.00006	0.00006
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00157	0.00162	0.00176
	B0	0.00045	0.00053	0.00075
	B0	0.00000	0.00000	0.00001
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00135	0.00143	0.00162
	C0	0.00046	0.00058	0.00099
	C0	0.00006	0.00006	0.00007
	C0	0.00000	0.00002	0.00004
	C0	0.00122	0.00131	0.00167

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X2H7R	A0	0.00162	0.00168	0.00188
	A0	-0.00006	-0.00006	-0.00004
	A0	0.00003	0.00004	0.00005
	A0	0.00061	0.00067	0.00086
	A1	0.00172	0.00177	0.00197
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00007	0.00007	0.00007
	A1	0.00061	0.00066	0.00087
	B0	0.00144	0.00153	0.00190
	B0	-0.00000	-0.00000	0.00002
	B0	0.00007	0.00007	0.00007
	B0	0.00056	0.00067	0.00106
	C0	0.00137	0.00149	0.00194
	C0	-0.00001	-0.00001	0.00000
	C0	-0.00002	-0.00002	0.00000
	C0	0.00058	0.00070	0.00115

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7R	(A1 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00022	0.00022	0.00023
	(A1 * B0 * !C0 * !Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A1 * B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * C0 * !Y)	-0.00014	-0.00013	-0.00013
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * !Y)	0.00009	0.00010	0.00010
	(!A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * !Y)	0.00009	0.00010	0.00010

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7R	(A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !C0 * !Y)	0.00013	0.00014	0.00015
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * C0 * !Y)	-0.00010	-0.00010	-0.00009
	(!A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * !Y)	-0.00010	-0.00010	-0.00009

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7R	(A0 * B0 * C0 * Y)	-0.00011	-0.00009	-0.00006
	(A0 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00020	0.00020	0.00021
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00017	0.00018	0.00018
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00017	0.00018	0.00018
	(!A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7R	(A0 * B0 * C0 * Y)	0.00010	0.00011	0.00011
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(A0 * B0 * !C0 * !Y)	0.00010	0.00010	0.00011
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7R	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00026	0.00027	0.00027
	(A0 * A1 * !C0 * !Y)	-0.00012	-0.00010	-0.00008
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !C0 * !Y)	0.00019	0.00019	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7R	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !C0 * !Y)	0.00011	0.00012	0.00012
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !C0 * !Y)	0.00014	0.00014	0.00015
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00018	-0.00016	-0.00014
	(!A0 * !C0 * !Y)	0.00014	0.00015	0.00016
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7R	(A0 * !A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X2H7R	(A0 * !A1 * !B0 * !Y)	0.00020	0.00020	0.00021
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00006

AOA211X3H7R

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

Truth Table

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

Footprint

Cell Name	Area
AOA211X3H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X3H7R	0.00076	0.00078	0.00083	0.00088	0.12043

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X3H7R	0.00000	0.33807	0.51463

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X3H7R	A0->Y (RR)	0.06544	0.22145	0.59282
	A1->Y (RR)	0.06657	0.21797	0.58183
	B0->Y (RR)	0.04532	0.19471	0.55450
	C0->Y (RR)	0.05871	0.21258	0.58018

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X3H7R	A0->Y (FF)	0.06474	0.19458	0.49853
	A1->Y (FF)	0.06674	0.19858	0.50614
	B0->Y (FF)	0.06184	0.19482	0.50551
	C0->Y (FF)	0.03385	0.15764	0.45199

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X3H7R	A0	0.00079	0.00087	0.00120
	A0	0.00007	0.00007	0.00007
	A0	-0.00005	-0.00004	-0.00003
	A0	0.00196	0.00204	0.00236
	A1	0.00079	0.00086	0.00110
	A1	0.00007	0.00007	0.00007
	A1	-0.00009	-0.00009	-0.00005
	A1	0.00206	0.00216	0.00240
	B0	0.00078	0.00088	0.00121
	B0	-0.00000	-0.00000	0.00000
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00182	0.00193	0.00223
	C0	0.00078	0.00094	0.00152
	C0	0.00007	0.00007	0.00008
	C0	0.00000	0.00003	0.00003
	C0	0.00167	0.00180	0.00235

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X3H7R	A0	0.00218	0.00227	0.00259
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00003	0.00004	0.00005
	A0	0.00101	0.00109	0.00142
	A1	0.00230	0.00238	0.00271
	A1	-0.00007	-0.00007	-0.00006
	A1	0.00009	0.00009	0.00009
	A1	0.00101	0.00109	0.00142
	B0	0.00197	0.00210	0.00268
	B0	0.00000	0.00000	0.00003
	B0	0.00008	0.00009	0.00009
	B0	0.00097	0.00110	0.00170
	C0	0.00189	0.00206	0.00270
	C0	0.00000	0.00000	0.00002
	C0	-0.00003	-0.00002	0.00000
	C0	0.00097	0.00114	0.00178

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7R	(A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00008
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(A1 * B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00009
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00015
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * C0 * !Y)	0.00009	0.00009	0.00009
	(!A1 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !C0 * !Y)	0.00009	0.00009	0.00009

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7R	(A1 * B0 * C0 * Y)	0.00012	0.00012	0.00013
	(A1 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00017
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00021	-0.00019	-0.00016
	(!A1 * B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * !C0 * !Y)	0.00015	0.00016	0.00016
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * C0 * !Y)	-0.00009	-0.00009	-0.00008
	(!A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7R	(A0 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00008
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00022	0.00022	0.00023
	(A0 * B0 * !C0 * !Y)	-0.00013	-0.00011	-0.00009
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00021	0.00021	0.00022
	(A0 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00020
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7R	(A0 * B0 * C0 * Y)	0.00012	0.00013	0.00013
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * B0 * !C0 * !Y)	0.00012	0.00013	0.00013
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00017
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B0 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7R	(A0 * A1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * C0 * Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !C0 * !Y)	-0.00014	-0.00012	-0.00010
	(A0 * A1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	0.00023	0.00023	0.00024
	(A0 * !A1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !C0 * !Y)	0.00020	0.00020	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7R	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * C0 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00020	-0.00018	-0.00015
	(!A0 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * !Y)	-0.00020	-0.00019	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7R	(A0 * !A1 * !B0 * !Y)	-0.00026	-0.00025	-0.00025
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00005	0.00006	0.00006

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X3H7R	(A0 * !A1 * !B0 * !Y)	0.00025	0.00026	0.00026
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00005

AOA211X4H7R

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

Truth Table

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

Footprint

Cell Name	Area
AOA211X4H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOA211X4H7R	0.00085	0.00083	0.00089	0.00099	0.15452

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOA211X4H7R	0.00000	0.42313	0.64643

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X4H7R	A0->Y (RR)	0.06160	0.21745	0.58807
	A1->Y (RR)	0.06257	0.21406	0.57844
	B0->Y (RR)	0.04213	0.19106	0.54930
	C0->Y (RR)	0.05521	0.20894	0.57547

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOA211X4H7R	A0->Y (FF)	0.06169	0.19136	0.49391
	A1->Y (FF)	0.06370	0.19532	0.50153
	B0->Y (FF)	0.05832	0.19085	0.49936
	C0->Y (FF)	0.03156	0.15527	0.44867

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X4H7R	A0	0.00092	0.00101	0.00143
	A0	0.00008	0.00009	0.00009
	A0	-0.00005	-0.00005	-0.00001
	A0	0.00219	0.00232	0.00273
	A1	0.00092	0.00101	0.00133
	A1	0.00008	0.00009	0.00009
	A1	-0.00010	-0.00010	-0.00007
	A1	0.00236	0.00247	0.00279
	B0	0.00090	0.00102	0.00145
	B0	-0.00001	-0.00001	0.00000
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00205	0.00217	0.00256
	C0	0.00089	0.00109	0.00182
	C0	0.00008	0.00009	0.00009
	C0	0.00001	0.00004	0.00004
	C0	0.00192	0.00208	0.00277

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOA211X4H7R	A0	0.00250	0.00262	0.00305
	A0	-0.00009	-0.00008	-0.00005
	A0	0.00004	0.00005	0.00006
	A0	0.00121	0.00131	0.00174
	A1	0.00266	0.00275	0.00318
	A1	-0.00009	-0.00009	-0.00007
	A1	0.00010	0.00010	0.00010
	A1	0.00121	0.00130	0.00173
	B0	0.00226	0.00242	0.00315
	B0	0.00000	0.00001	0.00003
	B0	0.00010	0.00010	0.00010
	B0	0.00116	0.00131	0.00208
	C0	0.00219	0.00239	0.00323
	C0	0.00000	0.00001	0.00004
	C0	-0.00004	-0.00003	0.00000
	C0	0.00115	0.00134	0.00218

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7R	(A1 * B0 * C0 * Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00024	0.00025	0.00026
	(A1 * B0 * !C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A1 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00006	0.00006	0.00007
	(!A1 * !B0 * !C0 * !Y)	0.00007	0.00008	0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7R	(A1 * B0 * C0 * Y)	0.00015	0.00015	0.00015
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !C0 * !Y)	0.00019	0.00020	0.00021
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00021	-0.00019	-0.00016
	(!A1 * B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00020
	(!A1 * !B0 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A1 * !B0 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7R	(A0 * B0 * C0 * Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00023	0.00023	0.00024
	(A0 * B0 * !C0 * !Y)	-0.00014	-0.00013	-0.00010
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00022	0.00023	0.00023
	(A0 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !C0 * !Y)	0.00019	0.00020	0.00021
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00002
	(!A0 * !B0 * C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7R	(A0 * B0 * C0 * Y)	0.00015	0.00015	0.00015
	(A0 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00016
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y) + (!A0 * B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7R	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * A1 * C0 * Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !C0 * !Y)	-0.00016	-0.00014	-0.00011
	(A0 * A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !C0 * !Y)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7R	(A0 * A1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * A1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * C0 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * !C0 * !Y)	0.00015	0.00015	0.00016
	(A0 * A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !A1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * !Y)	-0.00020	-0.00018	-0.00015
	(!A0 * !C0 * !Y)	0.00019	0.00019	0.00021
	(!A0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * !Y)	-0.00021	-0.00019	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7R	(A0 * !A1 * !B0 * !Y)	-0.00030	-0.00029	-0.00029
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * !B0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * !Y)	-0.00030	-0.00029	-0.00029
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !Y)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOA211X4H7R	(A0 * !A1 * !B0 * !Y)	0.00029	0.00030	0.00030
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * !Y)	0.00029	0.00030	0.00030
	(!A0 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00006	-0.00006	-0.00006

AOAI211X0P5H7R

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

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

Footprint

Cell Name	Area
AOAI211X0P5H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X0P5H7R	0.00069	0.00070	0.00075	0.00076	0.02130

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X0P5H7R	0.00000	0.10193	0.17035

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X0P5H7R	A0->YN (FR)	0.04428	0.19720	0.64688
	A1->YN (FR)	0.04553	0.19956	0.64759
	B0->YN (FR)	0.03937	0.19492	0.66097
	C0->YN (FR)	0.01787	0.11698	0.46320

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X0P5H7R	A0->YN (RF)	0.04334	0.18729	0.62289
	A1->YN (RF)	0.04411	0.18145	0.58390
	B0->YN (RF)	0.02693	0.13662	0.49339
	C0->YN (RF)	0.03481	0.17682	0.61308

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X0P5H7R	A0	0.00115	0.00119	0.00130
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00007	0.00007	0.00007
	A0	0.00005	0.00008	0.00020
	A1	0.00122	0.00126	0.00139
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00010	0.00010	0.00010
	A1	0.00006	0.00008	0.00020
	B0	0.00091	0.00097	0.00124
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00010	0.00010	0.00010
	B0	-0.00002	0.00004	0.00034
	C0	0.00089	0.00096	0.00131
	C0	-0.00005	-0.00005	-0.00004
	C0	0.00000	0.00002	0.00002
	C0	-0.00007	0.00002	0.00043

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X0P5H7R	A0	-0.00008	-0.00006	0.00005
	A0	0.00010	0.00011	0.00011
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00100	0.00103	0.00114
	A1	-0.00008	-0.00006	0.00002
	A1	0.00010	0.00011	0.00011
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00110	0.00112	0.00121
	B0	-0.00008	-0.00004	0.00014
	B0	0.00004	0.00005	0.00005
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00090	0.00093	0.00109
	C0	-0.00006	-0.00000	0.00035
	C0	0.00010	0.00011	0.00011
	C0	-0.00002	-0.00002	0.00000
	C0	0.00075	0.00081	0.00108

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7R	(A1 * B0 * C0 * !YN)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00021	0.00021	0.00022
	(A1 * B0 * !C0 * YN)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * YN)	0.00021	0.00021	0.00021
	(A1 * !B0 * !C0 * YN)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00018	0.00018	0.00018
	(!A1 * B0 * C0 * !YN)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00019	0.00019	0.00019
	(!A1 * B0 * !C0 * YN)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	0.00019	0.00019	0.00019
	(!A1 * !B0 * C0 * YN)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * YN)	-0.00015	-0.00014	-0.00014
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * YN)	0.00008	0.00009	0.00009

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7R	(A1 * B0 * C0 * !YN)	0.00011	0.00011	0.00011
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00021	-0.00021	-0.00021
	(A1 * B0 * !C0 * YN)	0.00010	0.00011	0.00011
	(A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * YN)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !C0 * YN)	0.00014	0.00015	0.00016
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	-0.00018	-0.00017	-0.00014
	(!A1 * B0 * C0 * !YN)	0.00014	0.00014	0.00014
	(!A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00019	-0.00019	-0.00018
	(!A1 * B0 * !C0 * YN)	0.00014	0.00014	0.00014
	(!A1 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * YN)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * C0 * YN)	0.00014	0.00015	0.00015
	(!A1 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * YN)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * YN)	-0.00009	-0.00009	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7R	(A0 * B0 * C0 * !YN)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * !YN)	0.00019	0.00019	0.00020
	(A0 * B0 * !C0 * YN)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * YN)	0.00018	0.00019	0.00019
	(A0 * !B0 * !C0 * YN)	-0.00014	-0.00014	-0.00014
	(A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	0.00016	0.00016	0.00016
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00017	0.00017	0.00017
	(!A0 * !B0 * C0 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !C0 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	0.00016	0.00016	0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7R	(A0 * B0 * C0 * !YN)	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !YN)	-0.00018	-0.00018	-0.00018
	(A0 * B0 * !C0 * YN)	0.00010	0.00011	0.00011
	(A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * YN)	-0.00018	-0.00018	-0.00018
	(A0 * !B0 * !C0 * YN)	0.00014	0.00014	0.00014
	(A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * YN)	-0.00016	-0.00015	-0.00014
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00014	0.00014	0.00014
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * C0 * YN)	0.00014	0.00014	0.00014
	(!A0 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * YN)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * !C0 * YN)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00016	-0.00016	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7R	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00027	0.00027	0.00027
	(A0 * A1 * !C0 * YN)	-0.00012	-0.00010	-0.00008
	(A0 * A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * YN)	0.00021	0.00021	0.00022
	(A0 * !A1 * !C0 * YN)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	0.00018	0.00018	0.00018
	(!A0 * !C0 * YN)	-0.00015	-0.00014	-0.00014
	(!A0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !C0 * YN)	0.00018	0.00018	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7R	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * !C0 * YN)	0.00012	0.00012	0.00012
	(A0 * A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * YN)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !C0 * YN)	0.00014	0.00015	0.00015
	(A0 * !A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * YN)	-0.00018	-0.00016	-0.00014
	(!A0 * !C0 * YN)	0.00015	0.00015	0.00016
	(!A0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * YN)	-0.00018	-0.00017	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7R	(A0 * !A1 * !B0 * YN)	-0.00021	-0.00021	-0.00020
	(A0 * !A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * YN)	0.00006	0.00006	0.00006
	(!A0 * !B0 * YN)	-0.00021	-0.00021	-0.00020
	(!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * YN)	0.00006	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P5H7R	(A0 * !A1 * !B0 * YN)	0.00020	0.00021	0.00021
	(A0 * !A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * YN)	0.00021	0.00021	0.00021
	(!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * YN)	-0.00007	-0.00007	-0.00006

AOAI211X0P7H7R

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

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

Footprint

Cell Name	Area
AOAI211X0P7H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X0P7H7R	0.00073	0.00074	0.00080	0.00081	0.02414

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X0P7H7R	0.00000	0.11503	0.18813

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X0P7H7R	A0->YN (FR)	0.04115	0.19457	0.64744
	A1->YN (FR)	0.04245	0.19698	0.64891
	B0->YN (FR)	0.03670	0.19268	0.66046
	C0->YN (FR)	0.01661	0.11551	0.46329

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X0P7H7R	A0->YN (RF)	0.04010	0.18380	0.62182
	A1->YN (RF)	0.04085	0.17815	0.58315
	B0->YN (RF)	0.02510	0.13444	0.49258
	C0->YN (RF)	0.03195	0.17354	0.61089

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X0P7H7R	A0	0.00123	0.00126	0.00140
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00008	0.00008	0.00008
	A0	0.00003	0.00007	0.00020
	A1	0.00130	0.00134	0.00149
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00012	0.00012	0.00012
	A1	0.00004	0.00006	0.00020
	B0	0.00098	0.00104	0.00134
	B0	-0.00005	-0.00005	0.00000
	B0	0.00012	0.00012	0.00012
	B0	-0.00003	0.00004	0.00037
	C0	0.00094	0.00101	0.00141
	C0	-0.00005	-0.00005	-0.00005
	C0	0.00001	0.00002	0.00003
	C0	-0.00007	0.00002	0.00048

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X0P7H7R	A0	-0.00009	-0.00006	0.00006
	A0	0.00012	0.00012	0.00012
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00107	0.00111	0.00124
	A1	-0.00009	-0.00007	0.00003
	A1	0.00012	0.00012	0.00012
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00119	0.00122	0.00132
	B0	-0.00009	-0.00004	0.00017
	B0	0.00005	0.00005	0.00006
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00097	0.00100	0.00118
	C0	-0.00009	-0.00002	0.00040
	C0	0.00012	0.00012	0.00012
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00081	0.00088	0.00118

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7R	(A1 * B0 * C0 * !YN)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00022	0.00022	0.00023
	(A1 * B0 * !C0 * YN)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !C0 * YN)	0.00000	0.00001	0.00000
	(A1 * B0 * !C0 * YN)	0.00021	0.00022	0.00022
	(A1 * !B0 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * !YN)	-0.00016	-0.00016	-0.00015
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00019	0.00020	0.00020
	(!A1 * B0 * !C0 * YN)	-0.00016	-0.00016	-0.00015
	(!A1 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	0.00020	0.00020	0.00020
	(!A1 * !B0 * C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * YN)	0.00008	0.00008	0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7R	(A1 * B0 * C0 * !YN)	0.00012	0.00012	0.00012
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00022	-0.00022	-0.00021
	(A1 * B0 * !C0 * YN)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * YN)	-0.00022	-0.00021	-0.00021
	(A1 * !B0 * !C0 * YN)	0.00016	0.00016	0.00017
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	-0.00019	-0.00017	-0.00015
	(!A1 * B0 * C0 * !YN)	0.00015	0.00016	0.00016
	(!A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	-0.00020	-0.00019	-0.00019
	(!A1 * B0 * !C0 * YN)	0.00016	0.00016	0.00016
	(!A1 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * YN)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * C0 * YN)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * YN)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * YN)	-0.00008	-0.00008	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7R	(A0 * B0 * C0 * !YN)	-0.00012	-0.00010	-0.00008
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * !YN)	0.00019	0.00020	0.00021
	(A0 * B0 * !C0 * YN)	-0.00012	-0.00010	-0.00008
	(A0 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !C0 * YN)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * YN)	0.00019	0.00019	0.00020
	(A0 * !B0 * !C0 * YN)	-0.00015	-0.00015	-0.00015
	(A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	0.00017	0.00017	0.00017
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00017	0.00018	0.00018
	(!A0 * !B0 * C0 * YN)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !C0 * YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	0.00017	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7R	(A0 * B0 * C0 * !YN)	0.00012	0.00012	0.00012
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !YN)	-0.00019	-0.00019	-0.00019
	(A0 * B0 * !C0 * YN)	0.00011	0.00012	0.00012
	(A0 * B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * !C0 * YN)	0.00015	0.00015	0.00016
	(A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * YN)	-0.00017	-0.00016	-0.00015
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00015	0.00015	0.00015
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00018	-0.00017	-0.00016
	(!A0 * !B0 * C0 * YN)	0.00015	0.00015	0.00016
	(!A0 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * YN)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * !C0 * YN)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00017	-0.00016	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7R	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00028	0.00028	0.00028
	(A0 * A1 * !C0 * YN)	-0.00013	-0.00011	-0.00009
	(A0 * A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * YN)	0.00022	0.00022	0.00022
	(A0 * !A1 * !C0 * YN)	-0.00016	-0.00015	-0.00015
	(A0 * !A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	0.00019	0.00019	0.00019
	(!A0 * !C0 * YN)	-0.00016	-0.00015	-0.00015
	(!A0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !C0 * YN)	0.00019	0.00019	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7R	(A0 * A1 * C0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !C0 * YN)	0.00013	0.00013	0.00013
	(A0 * A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !C0 * YN)	0.00016	0.00016	0.00016
	(A0 * !A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * YN)	-0.00019	-0.00017	-0.00015
	(!A0 * !C0 * YN)	0.00016	0.00016	0.00017
	(!A0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * YN)	-0.00019	-0.00018	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7R	(A0 * !A1 * !B0 * YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * YN)	0.00006	0.00006	0.00006
	(!A0 * !B0 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * YN)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X0P7H7R	(A0 * !A1 * !B0 * YN)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * YN)	0.00022	0.00022	0.00022
	(!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * YN)	-0.00007	-0.00006	-0.00006

AOAI211X1H7R

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

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

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

Footprint

Cell Name	Area
AOAI211X1H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X1H7R	0.00078	0.00078	0.00083	0.00085	0.02880

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X1H7R	0.00000	0.13408	0.21350

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X1H7R	A0->YN (FR)	0.03677	0.19072	0.64871
	A1->YN (FR)	0.03814	0.19320	0.64997
	B0->YN (FR)	0.03292	0.18938	0.66227
	C0->YN (FR)	0.01490	0.11356	0.46374

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X1H7R	A0->YN (RF)	0.03630	0.18201	0.62686
	A1->YN (RF)	0.03713	0.17654	0.58840
	B0->YN (RF)	0.02294	0.13351	0.49794
	C0->YN (RF)	0.02873	0.17228	0.61755

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X1H7R	A0	0.00129	0.00134	0.00151
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00009	0.00009	0.00009
	A0	0.00000	0.00005	0.00022
	A1	0.00140	0.00145	0.00162
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00014	0.00014	0.00014
	A1	-0.00000	0.00003	0.00020
	B0	0.00105	0.00113	0.00148
	B0	-0.00006	-0.00006	0.00000
	B0	0.00014	0.00014	0.00014
	B0	-0.00004	0.00003	0.00043
	C0	0.00099	0.00108	0.00156
	C0	-0.00006	-0.00006	-0.00006
	C0	0.00002	0.00002	0.00003
	C0	-0.00009	0.00002	0.00057

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X1H7R	A0	-0.00010	-0.00007	0.00008
	A0	0.00015	0.00015	0.00015
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00117	0.00121	0.00136
	A1	-0.00011	-0.00008	0.00005
	A1	0.00015	0.00015	0.00015
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00131	0.00134	0.00147
	B0	-0.00011	-0.00005	0.00021
	B0	0.00000	0.00006	0.00006
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00104	0.00109	0.00132
	C0	-0.00011	-0.00002	0.00049
	C0	0.00015	0.00015	0.00015
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00088	0.00096	0.00133

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7R	(A1 * B0 * C0 * !YN)	-0.00013	-0.00012	-0.00009
	(A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00023	0.00023	0.00024
	(A1 * B0 * !C0 * YN)	-0.00013	-0.00012	-0.00009
	(A1 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * YN)	0.00023	0.00023	0.00023
	(A1 * !B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00020	0.00020	0.00021
	(!A1 * B0 * C0 * !YN)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00021	0.00021	0.00021
	(!A1 * B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	0.00021	0.00021	0.00021
	(!A1 * !B0 * C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * YN)	0.00004	0.00004	0.00004
	(!A1 * !B0 * C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * YN)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !C0 * YN)	0.00008	0.00008	0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7R	(A1 * B0 * C0 * !YN)	0.00013	0.00014	0.00014
	(A1 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * !C0 * YN)	0.00013	0.00013	0.00013
	(A1 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * YN)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * !C0 * YN)	0.00017	0.00018	0.00019
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	-0.00020	-0.00018	-0.00016
	(!A1 * B0 * C0 * !YN)	0.00017	0.00017	0.00017
	(!A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	-0.00021	-0.00020	-0.00020
	(!A1 * B0 * !C0 * YN)	0.00017	0.00017	0.00017
	(!A1 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * YN)	-0.00021	-0.00020	-0.00020
	(!A1 * !B0 * C0 * YN)	0.00017	0.00018	0.00018
	(!A1 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * YN)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * YN)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !C0 * YN)	-0.00008	-0.00008	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7R	(A0 * B0 * C0 * !YN)	-0.00013	-0.00011	-0.00009
	(A0 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * !YN)	0.00022	0.00022	0.00023
	(A0 * B0 * !C0 * YN)	-0.00013	-0.00012	-0.00009
	(A0 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * YN)	0.00022	0.00022	0.00022
	(A0 * !B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	0.00019	0.00019	0.00020
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00020	0.00020	0.00020
	(!A0 * !B0 * C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	0.00019	0.00020	0.00020
	(!A0 * !B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	0.00019	0.00019	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7R	(A0 * B0 * C0 * !YN)	0.00013	0.00013	0.00013
	(A0 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * !YN)	-0.00022	-0.00022	-0.00021
	(A0 * B0 * !C0 * YN)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * YN)	-0.00022	-0.00022	-0.00021
	(A0 * !B0 * !C0 * YN)	0.00017	0.00017	0.00017
	(A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * YN)	-0.00019	-0.00018	-0.00017
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00017	0.00017	0.00017
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00020	-0.00019	-0.00019
	(!A0 * !B0 * C0 * YN)	0.00017	0.00017	0.00017
	(!A0 * !B0 * C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * YN)	-0.00019	-0.00019	-0.00018
	(!A0 * !B0 * !C0 * YN)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00019	-0.00018	-0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7R	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * C0 * !YN)	0.00000	0.00001	0.00000
	(A0 * A1 * C0 * !YN)	0.00029	0.00029	0.00029
	(A0 * A1 * !C0 * YN)	-0.00014	-0.00013	-0.00010
	(A0 * A1 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * !C0 * YN)	0.00022	0.00023	0.00023
	(A0 * !A1 * !C0 * YN)	-0.00018	-0.00018	-0.00017
	(A0 * !A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	0.00019	0.00019	0.00020
	(!A0 * !C0 * YN)	-0.00018	-0.00018	-0.00018
	(!A0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !C0 * YN)	0.00020	0.00020	0.00020

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7R	(A0 * A1 * C0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * C0 * !YN)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !C0 * YN)	0.00014	0.00014	0.00014
	(A0 * A1 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * YN)	-0.00023	-0.00022	-0.00022
	(A0 * !A1 * !C0 * YN)	0.00018	0.00018	0.00018
	(A0 * !A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * YN)	-0.00019	-0.00018	-0.00016
	(!A0 * !C0 * YN)	0.00018	0.00018	0.00019
	(!A0 * !C0 * YN)	0.00000	0.00000	0.00001
	(!A0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * YN)	-0.00020	-0.00018	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7R	(A0 * !A1 * !B0 * YN)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * YN)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B0 * YN)	0.00006	0.00006	0.00006
	(!A0 * !B0 * YN)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * YN)	0.00006	0.00006	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1H7R	(A0 * !A1 * !B0 * YN)	0.00024	0.00024	0.00024
	(A0 * !A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * YN)	0.00024	0.00024	0.00024
	(!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * YN)	-0.00006	-0.00006	-0.00006

AOAI211X1P4H7R

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

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

Footprint

Cell Name	Area
AOAI211X1P4H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X1P4H7R	0.00085	0.00082	0.00086	0.00092	0.03290

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X1P4H7R	0.00000	0.15233	0.23933

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X1P4H7R	A0->YN (FR)	0.03452	0.18907	0.65014
	A1->YN (FR)	0.03600	0.19161	0.65098
	B0->YN (FR)	0.03067	0.18761	0.66278
	C0->YN (FR)	0.01381	0.11231	0.46453

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X1P4H7R	A0->YN (RF)	0.03390	0.17925	0.62453
	A1->YN (RF)	0.03485	0.17399	0.58596
	B0->YN (RF)	0.02140	0.13144	0.49696
	C0->YN (RF)	0.02653	0.16951	0.61521

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X1P4H7R	A0	0.00140	0.00145	0.00166
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00011	0.00011	0.00011
	A0	-0.00001	0.00003	0.00023
	A1	0.00154	0.00158	0.00178
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00016	0.00016	0.00016
	A1	-0.00000	0.00003	0.00023
	B0	0.00113	0.00122	0.00163
	B0	-0.00007	-0.00007	0.00000
	B0	0.00016	0.00016	0.00016
	B0	-0.00006	0.00003	0.00048
	C0	0.00107	0.00117	0.00173
	C0	-0.00007	-0.00007	-0.00007
	C0	0.00002	0.00003	0.00007
	C0	-0.00013	-0.00001	0.00063

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X1P4H7R	A0	-0.00012	-0.00008	0.00009
	A0	0.00017	0.00017	0.00017
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00128	0.00132	0.00151
	A1	-0.00012	-0.00009	0.00005
	A1	0.00017	0.00017	0.00017
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00142	0.00147	0.00162
	B0	-0.00012	-0.00006	0.00025
	B0	0.00007	0.00007	0.00008
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00114	0.00119	0.00146
	C0	-0.00012	-0.00002	0.00057
	C0	0.00017	0.00017	0.00017
	C0	-0.00003	-0.00003	-0.00001
	C0	0.00096	0.00106	0.00150

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7R	(A1 * B0 * C0 * !YN)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00024	0.00025	0.00026
	(A1 * B0 * !C0 * YN)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * YN)	0.00024	0.00024	0.00024
	(A1 * !B0 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00021	0.00021	0.00022
	(!A1 * B0 * C0 * !YN)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00022	0.00022	0.00022
	(!A1 * B0 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * !C0 * YN)	-0.00000	-0.00001	-0.00000
	(!A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	0.00022	0.00022	0.00022
	(!A1 * !B0 * C0 * YN)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * YN)	0.00004	0.00004	0.00004
	(!A1 * !B0 * C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * YN)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !C0 * YN)	0.00008	0.00008	0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7R	(A1 * B0 * C0 * !YN)	0.00015	0.00015	0.00015
	(A1 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * !C0 * YN)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * YN)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !C0 * YN)	0.00019	0.00020	0.00021
	(A1 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	-0.00021	-0.00019	-0.00017
	(!A1 * B0 * C0 * !YN)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * !C0 * YN)	0.00019	0.00019	0.00019
	(!A1 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * YN)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * C0 * YN)	0.00019	0.00020	0.00020
	(!A1 * !B0 * C0 * YN)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * YN)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * YN)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !C0 * YN)	-0.00008	-0.00008	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7R	(A0 * B0 * C0 * !YN)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00022	0.00022	0.00023
	(A0 * B0 * !C0 * YN)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * YN)	0.00022	0.00022	0.00022
	(A0 * !B0 * !C0 * YN)	-0.00019	-0.00019	-0.00018
	(A0 * !B0 * !C0 * YN)	-0.00000	-0.00001	-0.00000
	(A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	0.00019	0.00019	0.00019
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00002
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00020	0.00020	0.00020
	(!A0 * !B0 * C0 * YN)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !C0 * YN)	-0.00019	-0.00019	-0.00018
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * YN)	0.00019	0.00019	0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7R	(A0 * B0 * C0 * !YN)	0.00015	0.00015	0.00015
	(A0 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * B0 * !C0 * YN)	0.00014	0.00015	0.00015
	(A0 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * YN)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !C0 * YN)	-0.00022	-0.00022	-0.00021
	(A0 * !B0 * !C0 * YN)	0.00019	0.00019	0.00019
	(A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * YN)	-0.00019	-0.00018	-0.00016
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00019	0.00019	0.00019
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00020	-0.00019	-0.00018
	(!A0 * !B0 * C0 * YN)	0.00019	0.00019	0.00019
	(!A0 * !B0 * C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * YN)	-0.00019	-0.00018	-0.00017
	(!A0 * !B0 * !C0 * YN)	0.00018	0.00019	0.00019
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * YN)	-0.00019	-0.00018	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7R	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * A1 * C0 * !YN)	0.00030	0.00030	0.00031
	(A0 * A1 * !C0 * YN)	-0.00015	-0.00014	-0.00011
	(A0 * A1 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * YN)	0.00024	0.00024	0.00024
	(A0 * !A1 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !C0 * YN)	0.00020	0.00020	0.00021
	(!A0 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(!A0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !C0 * YN)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7R	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00003	0.00003	0.00003
	(A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * C0 * !YN)	-0.00031	-0.00030	-0.00030
	(A0 * A1 * !C0 * YN)	0.00015	0.00015	0.00015
	(A0 * A1 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !C0 * YN)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * !C0 * YN)	0.00019	0.00019	0.00019
	(A0 * !A1 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !C0 * YN)	-0.00020	-0.00019	-0.00016
	(!A0 * !C0 * YN)	0.00019	0.00019	0.00020
	(!A0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * YN)	-0.00021	-0.00019	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7R	(A0 * !A1 * !B0 * YN)	-0.00027	-0.00026	-0.00026
	(A0 * !A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B0 * YN)	0.00007	0.00008	0.00008
	(!A0 * !B0 * YN)	-0.00027	-0.00026	-0.00026
	(!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !B0 * YN)	0.00008	0.00008	0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X1P4H7R	(A0 * !A1 * !B0 * YN)	0.00026	0.00027	0.00027
	(A0 * !A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B0 * YN)	-0.00008	-0.00007	-0.00007
	(!A0 * !B0 * YN)	0.00026	0.00027	0.00027
	(!A0 * !B0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * YN)	-0.00008	-0.00008	-0.00008

AOAI211X2H7R

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

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

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

Footprint

Cell Name	Area
AOAI211X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X2H7R	0.00094	0.00091	0.00098	0.00102	0.03871

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X2H7R	0.00000	0.18029	0.28073

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X2H7R	A0->YN (FR)	0.03214	0.18722	0.65102
	A1->YN (FR)	0.03381	0.18986	0.65166
	B0->YN (FR)	0.02887	0.18622	0.66304
	C0->YN (FR)	0.01292	0.11137	0.46615

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X2H7R	A0->YN (RF)	0.03084	0.17357	0.61465
	A1->YN (RF)	0.03187	0.16861	0.57736
	B0->YN (RF)	0.01982	0.12780	0.48918
	C0->YN (RF)	0.02398	0.16433	0.60530

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X2H7R	A0	0.00155	0.00161	0.00186
	A0	-0.00021	-0.00020	-0.00020
	A0	0.00013	0.00013	0.00013
	A0	-0.00005	0.00000	0.00024
	A1	0.00170	0.00177	0.00201
	A1	-0.00021	-0.00020	-0.00020
	A1	0.00019	0.00020	0.00020
	A1	-0.00004	-0.00000	0.00024
	B0	0.00128	0.00138	0.00186
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00019	0.00019	0.00020
	B0	-0.00009	0.00001	0.00055
	C0	0.00117	0.00130	0.00196
	C0	-0.00009	-0.00009	-0.00008
	C0	0.00003	0.00003	0.00008
	C0	-0.00016	-0.00002	0.00076

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X2H7R	A0	-0.00014	-0.00010	0.00012
	A0	0.00020	0.00020	0.00021
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00142	0.00150	0.00173
	A1	-0.00014	-0.00010	0.00008
	A1	0.00020	0.00020	0.00021
	A1	-0.00020	-0.00020	-0.00019
	A1	0.00163	0.00167	0.00185
	B0	-0.00014	-0.00007	0.00031
	B0	0.00009	0.00009	0.00009
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00130	0.00136	0.00169
	C0	-0.00014	-0.00002	0.00069
	C0	0.00020	0.00020	0.00021
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00106	0.00119	0.00173

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7R	(A1 * B0 * C0 * !YN)	-0.00017	-0.00015	-0.00012
	(A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00027	0.00027	0.00028
	(A1 * B0 * !C0 * YN)	-0.00017	-0.00015	-0.00012
	(A1 * B0 * !C0 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * YN)	0.00027	0.00027	0.00027
	(A1 * !B0 * !C0 * YN)	-0.00022	-0.00022	-0.00021
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * !C0 * YN)	0.00023	0.00024	0.00024
	(!A1 * B0 * C0 * !YN)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00002
	(!A1 * B0 * C0 * !YN)	0.00024	0.00024	0.00025
	(!A1 * B0 * !C0 * YN)	-0.00022	-0.00022	-0.00021
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * YN)	0.00024	0.00024	0.00024
	(!A1 * !B0 * C0 * YN)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * YN)	0.00005	0.00005	0.00005
	(!A1 * !B0 * C0 * YN)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !C0 * YN)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00007	0.00007	0.00007
	(!A1 * !B0 * !C0 * YN)	0.00008	0.00008	0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7R	(A1 * B0 * C0 * !YN)	0.00017	0.00017	0.00018
	(A1 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00027	-0.00026	-0.00026
	(A1 * B0 * !C0 * YN)	0.00017	0.00017	0.00017
	(A1 * B0 * !C0 * YN)	0.00002	0.00003	0.00003
	(A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * YN)	-0.00027	-0.00026	-0.00026
	(A1 * !B0 * !C0 * YN)	0.00022	0.00022	0.00024
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !C0 * YN)	-0.00023	-0.00021	-0.00019
	(!A1 * B0 * C0 * !YN)	0.00022	0.00022	0.00022
	(!A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	-0.00024	-0.00024	-0.00023
	(!A1 * B0 * !C0 * YN)	0.00021	0.00022	0.00022
	(!A1 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !C0 * YN)	-0.00024	-0.00024	-0.00022
	(!A1 * !B0 * C0 * YN)	0.00022	0.00022	0.00022
	(!A1 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * YN)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * C0 * YN)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * YN)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * !C0 * YN)	-0.00008	-0.00008	-0.00008

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7R	(A0 * B0 * C0 * !YN)	-0.00017	-0.00015	-0.00012
	(A0 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00024	0.00024	0.00025
	(A0 * B0 * !C0 * YN)	-0.00017	-0.00015	-0.00012
	(A0 * B0 * !C0 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * YN)	0.00024	0.00024	0.00024
	(A0 * !B0 * !C0 * YN)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(A0 * !B0 * !C0 * YN)	0.00021	0.00021	0.00021
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00022	0.00022	0.00022
	(!A0 * !B0 * C0 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * YN)	0.00001	0.00002	0.00002
	(!A0 * !B0 * C0 * YN)	0.00021	0.00021	0.00022
	(!A0 * !B0 * !C0 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * YN)	0.00021	0.00021	0.00021

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7R	(A0 * B0 * C0 * !YN)	0.00017	0.00017	0.00017
	(A0 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !C0 * YN)	0.00016	0.00017	0.00017
	(A0 * B0 * !C0 * YN)	0.00002	0.00003	0.00003
	(A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * YN)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !C0 * YN)	0.00021	0.00021	0.00021
	(A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !C0 * YN)	-0.00021	-0.00020	-0.00018
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00021	0.00021	0.00021
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * C0 * YN)	0.00021	0.00021	0.00021
	(!A0 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * C0 * YN)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * !C0 * YN)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * YN)	-0.00021	-0.00020	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7R	(A0 * A1 * C0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * A1 * C0 * !YN)	0.00034	0.00034	0.00034
	(A0 * A1 * !C0 * YN)	-0.00018	-0.00016	-0.00013
	(A0 * A1 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * YN)	0.00026	0.00026	0.00027
	(A0 * !A1 * !C0 * YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !C0 * YN)	0.00022	0.00022	0.00023
	(!A0 * !C0 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * YN)	0.00001	0.00002	0.00002
	(!A0 * !C0 * YN)	0.00023	0.00023	0.00024

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7R	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00003	0.00003	0.00004
	(A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * !YN)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !C0 * YN)	0.00018	0.00018	0.00018
	(A0 * A1 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !C0 * YN)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !C0 * YN)	0.00022	0.00022	0.00022
	(A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * YN)	-0.00022	-0.00020	-0.00018
	(!A0 * !C0 * YN)	0.00022	0.00022	0.00023
	(!A0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !C0 * YN)	-0.00023	-0.00021	-0.00019

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7R	(A0 * !A1 * !B0 * YN)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B0 * YN)	0.00007	0.00007	0.00007
	(!A0 * !B0 * YN)	-0.00030	-0.00030	-0.00029
	(!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !B0 * YN)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X2H7R	(A0 * !A1 * !B0 * YN)	0.00030	0.00030	0.00030
	(A0 * !A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B0 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * YN)	0.00030	0.00030	0.00030
	(!A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * YN)	-0.00007	-0.00007	-0.00007

AOAI211X3H7R

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

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

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

Footprint

Cell Name	Area
AOAI211X3H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X3H7R	0.00152	0.00149	0.00158	0.00165	0.05943

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X3H7R	0.00000	0.28279	0.44897

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X3H7R	A0->YN (FR)	0.03217	0.18557	0.64441
	A1->YN (FR)	0.03532	0.19076	0.64830
	B0->YN (FR)	0.03011	0.18764	0.66336
	C0->YN (FR)	0.01276	0.10991	0.46072

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X3H7R	A0->YN (RF)	0.03121	0.17456	0.61666
	A1->YN (RF)	0.03343	0.17121	0.57904
	B0->YN (RF)	0.02077	0.12970	0.49191
	C0->YN (RF)	0.02370	0.16485	0.60752

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X3H7R	A0	0.00266	0.00274	0.00314
	A0	-0.00031	-0.00031	-0.00031
	A0	0.00019	0.00020	0.00023
	A0	0.00003	0.00011	0.00050
	A1	0.00301	0.00311	0.00350
	A1	-0.00031	-0.00031	-0.00031
	A1	0.00029	0.00030	0.00030
	A1	0.00003	0.00010	0.00048
	B0	0.00235	0.00249	0.00324
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00029	0.00030	0.00030
	B0	-0.00008	0.00009	0.00095
	C0	0.00202	0.00222	0.00329
	C0	-0.00013	-0.00013	-0.00013
	C0	0.00003	0.00005	0.00014
	C0	-0.00017	0.00006	0.00131

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X3H7R	A0	-0.00021	-0.00015	0.00021
	A0	0.00031	0.00031	0.00031
	A0	-0.00021	-0.00020	-0.00019
	A0	0.00237	0.00246	0.00282
	A1	-0.00022	-0.00016	0.00010
	A1	0.00031	0.00031	0.00031
	A1	-0.00030	-0.00030	-0.00029
	A1	0.00278	0.00288	0.00314
	B0	-0.00022	-0.00011	0.00051
	B0	0.00013	0.00013	0.00016
	B0	-0.00020	-0.00020	-0.00019
	B0	0.00224	0.00234	0.00285
	C0	-0.00017	0.00002	0.00113
	C0	0.00031	0.00031	0.00031
	C0	-0.00005	-0.00004	-0.00002
	C0	0.00177	0.00195	0.00282

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7R	(A1 * B0 * C0 * !YN)	-0.00027	-0.00023	-0.00018
	(A1 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00049	0.00049	0.00051
	(A1 * B0 * !C0 * YN)	-0.00027	-0.00024	-0.00019
	(A1 * B0 * !C0 * YN)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * YN)	0.00048	0.00048	0.00048
	(A1 * !B0 * !C0 * YN)	-0.00034	-0.00034	-0.00034
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !C0 * YN)	0.00043	0.00044	0.00044
	(!A1 * B0 * C0 * !YN)	-0.00034	-0.00034	-0.00033
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * !YN)	0.00044	0.00044	0.00044
	(!A1 * B0 * !C0 * YN)	-0.00034	-0.00034	-0.00033
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * YN)	0.00044	0.00044	0.00044
	(!A1 * !B0 * C0 * YN)	-0.00035	-0.00035	-0.00035
	(!A1 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * YN)	0.00007	0.00007	0.00007
	(!A1 * !B0 * C0 * YN)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * YN)	-0.00035	-0.00035	-0.00035
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	0.00010	0.00010	0.00010
	(!A1 * !B0 * !C0 * YN)	0.00017	0.00017	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7R	(A1 * B0 * C0 * !YN)	0.00027	0.00027	0.00027
	(A1 * B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !YN)	-0.00049	-0.00048	-0.00048
	(A1 * B0 * !C0 * YN)	0.00026	0.00027	0.00027
	(A1 * B0 * !C0 * YN)	0.00003	0.00003	0.00004
	(A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * YN)	-0.00048	-0.00048	-0.00048
	(A1 * !B0 * !C0 * YN)	0.00034	0.00035	0.00037
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !C0 * YN)	-0.00043	-0.00040	-0.00036
	(!A1 * B0 * C0 * !YN)	0.00033	0.00034	0.00034
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * !YN)	-0.00044	-0.00042	-0.00040
	(!A1 * B0 * !C0 * YN)	0.00034	0.00034	0.00034
	(!A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * YN)	-0.00044	-0.00042	-0.00040
	(!A1 * !B0 * C0 * YN)	0.00035	0.00035	0.00035
	(!A1 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * YN)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * YN)	0.00035	0.00036	0.00036
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7R	(A0 * B0 * C0 * !YN)	-0.00026	-0.00023	-0.00018
	(A0 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00002
	(A0 * B0 * C0 * !YN)	0.00050	0.00051	0.00052
	(A0 * B0 * !C0 * YN)	-0.00026	-0.00023	-0.00019
	(A0 * B0 * !C0 * YN)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * YN)	0.00050	0.00050	0.00050
	(A0 * !B0 * !C0 * YN)	-0.00033	-0.00033	-0.00032
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * YN)	0.00002	0.00003	0.00003
	(A0 * !B0 * !C0 * YN)	0.00043	0.00044	0.00044
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00033	-0.00032	-0.00032
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00002	0.00003	0.00003
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00045	0.00045	0.00045
	(!A0 * !B0 * C0 * YN)	-0.00033	-0.00032	-0.00032
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * YN)	0.00045	0.00046	0.00046
	(!A0 * !B0 * !C0 * YN)	-0.00033	-0.00032	-0.00032
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !C0 * YN)	0.00044	0.00045	0.00045

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7R	(A0 * B0 * C0 * !YN)	0.00026	0.00026	0.00026
	(A0 * B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	-0.00050	-0.00050	-0.00049
	(A0 * B0 * !C0 * YN)	0.00026	0.00026	0.00026
	(A0 * B0 * !C0 * YN)	0.00003	0.00003	0.00004
	(A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * YN)	-0.00050	-0.00050	-0.00050
	(A0 * !B0 * !C0 * YN)	0.00033	0.00033	0.00034
	(A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * !C0 * YN)	-0.00044	-0.00041	-0.00037
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00032	0.00032	0.00033
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00045	-0.00044	-0.00041
	(!A0 * !B0 * C0 * YN)	0.00033	0.00033	0.00033
	(!A0 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * YN)	-0.00045	-0.00043	-0.00039
	(!A0 * !B0 * !C0 * YN)	0.00032	0.00033	0.00033
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * YN)	-0.00045	-0.00043	-0.00040

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7R	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * A1 * C0 * !YN)	0.00059	0.00059	0.00059
	(A0 * A1 * !C0 * YN)	-0.00032	-0.00028	-0.00023
	(A0 * A1 * !C0 * YN)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * YN)	0.00044	0.00044	0.00045
	(A0 * !A1 * !C0 * YN)	-0.00039	-0.00039	-0.00039
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !C0 * YN)	0.00038	0.00038	0.00038
	(!A0 * !C0 * YN)	-0.00039	-0.00039	-0.00039
	(!A0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !C0 * YN)	0.00039	0.00040	0.00040

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7R	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00006	0.00006	0.00006
	(A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * !YN)	-0.00059	-0.00059	-0.00059
	(A0 * A1 * !C0 * YN)	0.00031	0.00032	0.00032
	(A0 * A1 * !C0 * YN)	0.00003	0.00003	0.00004
	(A0 * A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * YN)	-0.00044	-0.00044	-0.00044
	(A0 * !A1 * !C0 * YN)	0.00039	0.00039	0.00039
	(A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !C0 * YN)	-0.00038	-0.00035	-0.00031
	(!A0 * !C0 * YN)	0.00039	0.00040	0.00041
	(!A0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !C0 * YN)	-0.00039	-0.00036	-0.00033

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7R	(A0 * !A1 * !B0 * YN)	-0.00049	-0.00049	-0.00048
	(A0 * !A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !B0 * YN)	0.00013	0.00014	0.00014
	(!A0 * !B0 * YN)	-0.00049	-0.00049	-0.00048
	(!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * YN)	0.00005	0.00005	0.00005
	(!A0 * !B0 * YN)	0.00014	0.00015	0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X3H7R	(A0 * !A1 * !B0 * YN)	0.00048	0.00049	0.00049
	(A0 * !A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !B0 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * YN)	0.00048	0.00049	0.00049
	(!A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * YN)	-0.00005	-0.00005	-0.00004
	(!A0 * !B0 * YN)	-0.00014	-0.00014	-0.00014

AOAI211X4H7R

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

Cell Description

AOAI

YN=! ((A0 & A1)+B0) & C0

Truth Table

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

Footprint

Cell Name	Area
AOAI211X4H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
AOAI211X4H7R	0.00177	0.00174	0.00184	0.00193	0.07585

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOAI211X4H7R	0.00000	0.36058	0.56146

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X4H7R	A0->YN (FR)	0.02890	0.18240	0.64362
	A1->YN (FR)	0.03186	0.18753	0.64920
	B0->YN (FR)	0.02697	0.18454	0.66276
	C0->YN (FR)	0.01152	0.10821	0.46142

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOAI211X4H7R	A0->YN (RF)	0.02770	0.16914	0.60927
	A1->YN (RF)	0.02973	0.16555	0.57127
	B0->YN (RF)	0.01846	0.12550	0.48591
	C0->YN (RF)	0.02111	0.16037	0.60089

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X4H7R	A0	0.00307	0.00317	0.00370
	A0	-0.00042	-0.00041	-0.00041
	A0	0.00020	0.00026	0.00026
	A0	-0.00012	-0.00000	0.00051
	A1	0.00350	0.00362	0.00412
	A1	-0.00041	-0.00041	-0.00041
	A1	0.00039	0.00039	0.00039
	A1	-0.00011	-0.00002	0.00047
	B0	0.00270	0.00288	0.00385
	B0	-0.00018	-0.00017	-0.00015
	B0	0.00038	0.00039	0.00039
	B0	-0.00018	0.00002	0.00114
	C0	0.00233	0.00259	0.00398
	C0	-0.00018	-0.00017	-0.00017
	C0	0.00003	0.00006	0.00009
	C0	-0.00027	0.00002	0.00164

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOAI211X4H7R	A0	-0.00027	-0.00018	0.00030
	A0	0.00041	0.00041	0.00042
	A0	-0.00026	-0.00026	-0.00020
	A0	0.00287	0.00296	0.00345
	A1	-0.00027	-0.00020	0.00016
	A1	0.00041	0.00041	0.00041
	A1	-0.00039	-0.00039	-0.00039
	A1	0.00334	0.00347	0.00383
	B0	-0.00029	-0.00014	0.00070
	B0	0.00015	0.00017	0.00019
	B0	-0.00026	-0.00026	-0.00026
	B0	0.00261	0.00279	0.00349
	C0	-0.00028	-0.00003	0.00148
	C0	0.00041	0.00041	0.00041
	C0	-0.00006	-0.00006	-0.00003
	C0	0.00216	0.00236	0.00350

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7R	(A1 * B0 * C0 * !YN)	-0.00034	-0.00030	-0.00024
	(A1 * B0 * C0 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00055	0.00056	0.00058
	(A1 * B0 * !C0 * YN)	-0.00033	-0.00030	-0.00024
	(A1 * B0 * !C0 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * YN)	0.00054	0.00055	0.00055
	(A1 * !B0 * !C0 * YN)	-0.00042	-0.00042	-0.00042
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !C0 * YN)	0.00049	0.00049	0.00050
	(!A1 * B0 * C0 * !YN)	-0.00042	-0.00042	-0.00041
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	0.00002	0.00003	0.00003
	(!A1 * B0 * C0 * !YN)	0.00049	0.00049	0.00050
	(!A1 * B0 * !C0 * YN)	-0.00042	-0.00042	-0.00041
	(!A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A1 * B0 * !C0 * YN)	0.00049	0.00049	0.00050
	(!A1 * !B0 * C0 * YN)	-0.00043	-0.00043	-0.00043
	(!A1 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * YN)	0.00009	0.00010	0.00010
	(!A1 * !B0 * C0 * YN)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !C0 * YN)	-0.00043	-0.00043	-0.00043
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	0.00013	0.00013	0.00013
	(!A1 * !B0 * !C0 * YN)	0.00016	0.00015	0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7R	(A1 * B0 * C0 * !YN)	0.00034	0.00034	0.00034
	(A1 * B0 * C0 * !YN)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !YN)	-0.00055	-0.00055	-0.00054
	(A1 * B0 * !C0 * YN)	0.00033	0.00033	0.00033
	(A1 * B0 * !C0 * YN)	0.00005	0.00005	0.00005
	(A1 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * YN)	-0.00054	-0.00054	-0.00054
	(A1 * !B0 * !C0 * YN)	0.00042	0.00043	0.00046
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !C0 * YN)	-0.00049	-0.00045	-0.00040
	(!A1 * B0 * C0 * !YN)	0.00041	0.00042	0.00042
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * C0 * !YN)	-0.00050	-0.00047	-0.00044
	(!A1 * B0 * !C0 * YN)	0.00042	0.00042	0.00042
	(!A1 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !C0 * YN)	-0.00049	-0.00047	-0.00044
	(!A1 * !B0 * C0 * YN)	0.00043	0.00043	0.00044
	(!A1 * !B0 * C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * YN)	-0.00010	-0.00009	-0.00009
	(!A1 * !B0 * C0 * YN)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !C0 * YN)	0.00044	0.00044	0.00044
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !C0 * YN)	-0.00016	-0.00015	-0.00016

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7R	(A0 * B0 * C0 * !YN)	-0.00033	-0.00029	-0.00023
	(A0 * B0 * C0 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00056	0.00057	0.00058
	(A0 * B0 * !C0 * YN)	-0.00033	-0.00029	-0.00024
	(A0 * B0 * !C0 * YN)	-0.00005	-0.00005	-0.00004
	(A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * YN)	0.00056	0.00056	0.00056
	(A0 * !B0 * !C0 * YN)	-0.00041	-0.00041	-0.00040
	(A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(A0 * !B0 * !C0 * YN)	0.00049	0.00049	0.00049
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00041	-0.00041	-0.00040
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00003	0.00003	0.00004
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00050	0.00050	0.00051
	(!A0 * !B0 * C0 * YN)	-0.00041	-0.00040	-0.00040
	(!A0 * !B0 * C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !B0 * C0 * YN)	0.00051	0.00051	0.00052
	(!A0 * !B0 * !C0 * YN)	-0.00041	-0.00041	-0.00040
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	0.00003	0.00003	0.00004
	(!A0 * !B0 * !C0 * YN)	0.00050	0.00050	0.00050

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7R	(A0 * B0 * C0 * !YN)	0.00033	0.00033	0.00033
	(A0 * B0 * C0 * !YN)	0.00004	0.00004	0.00004
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	-0.00056	-0.00056	-0.00055
	(A0 * B0 * !C0 * YN)	0.00032	0.00032	0.00033
	(A0 * B0 * !C0 * YN)	0.00005	0.00005	0.00005
	(A0 * B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * YN)	-0.00056	-0.00056	-0.00056
	(A0 * !B0 * !C0 * YN)	0.00041	0.00041	0.00042
	(A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !C0 * YN)	-0.00049	-0.00046	-0.00041
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00041	0.00041	0.00041
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * B0 * C0 * !YN) + (!A0 * B0 * !C0 * YN)	-0.00051	-0.00049	-0.00046
	(!A0 * !B0 * C0 * YN)	0.00041	0.00041	0.00041
	(!A0 * !B0 * C0 * YN)	0.00001	0.00001	0.00002
	(!A0 * !B0 * C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * C0 * YN)	-0.00050	-0.00048	-0.00044
	(!A0 * !B0 * !C0 * YN)	0.00040	0.00041	0.00041
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * YN)	-0.00050	-0.00048	-0.00044

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7R	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * A1 * C0 * !YN)	0.00066	0.00067	0.00067
	(A0 * A1 * !C0 * YN)	-0.00039	-0.00035	-0.00028
	(A0 * A1 * !C0 * YN)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * YN)	0.00049	0.00049	0.00050
	(A0 * !A1 * !C0 * YN)	-0.00048	-0.00047	-0.00047
	(A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * !C0 * YN)	0.00043	0.00043	0.00043
	(!A0 * !C0 * YN)	-0.00048	-0.00048	-0.00047
	(!A0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !C0 * YN)	0.00044	0.00045	0.00045

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7R	(A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !YN)	0.00007	0.00008	0.00008
	(A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * C0 * !YN)	-0.00067	-0.00067	-0.00066
	(A0 * A1 * !C0 * YN)	0.00039	0.00039	0.00039
	(A0 * A1 * !C0 * YN)	0.00004	0.00005	0.00005
	(A0 * A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * YN)	-0.00049	-0.00049	-0.00049
	(A0 * !A1 * !C0 * YN)	0.00048	0.00048	0.00048
	(A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * !C0 * YN)	-0.00042	-0.00039	-0.00034
	(!A0 * !C0 * YN)	0.00048	0.00049	0.00050
	(!A0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !C0 * YN)	-0.00044	-0.00041	-0.00036

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7R	(A0 * !A1 * !B0 * YN)	-0.00059	-0.00059	-0.00058
	(A0 * !A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * !B0 * YN)	0.00013	0.00013	0.00013
	(!A0 * !B0 * YN)	-0.00059	-0.00059	-0.00058
	(!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * YN)	0.00006	0.00006	0.00006
	(!A0 * !B0 * YN)	0.00014	0.00014	0.00014

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

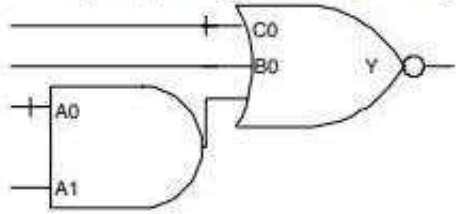
Cell Name	When	Power(pJ)		
		min	avg	max
AOAI211X4H7R	(A0 * !A1 * !B0 * YN)	0.00058	0.00059	0.00059
	(A0 * !A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !B0 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * YN)	0.00058	0.00059	0.00059
	(!A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * YN)	-0.00014	-0.00014	-0.00014

AOI211X0P5H7R

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

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AOI211X0P5H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X0P5H7R	0.00072	0.00074	0.00078	0.00076	0.01423

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X0P5H7R	0.00000	0.09024	0.42352

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X0P5H7R	A0->Y (FR)	0.06526	0.20991	0.61725
	A1->Y (FR)	0.06174	0.20551	0.61305
	B0->Y (FR)	0.05446	0.20536	0.65032
	C0->Y (FR)	0.05911	0.20887	0.64718

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X0P5H7R	A0->Y (RF)	0.03140	0.11803	0.39824
	A1->Y (RF)	0.03038	0.11629	0.40385
	B0->Y (RF)	0.01568	0.07505	0.30302
	C0->Y (RF)	0.01649	0.07735	0.30550

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X0P5H7R	A0	0.00131	0.00133	0.00142
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00009	0.00009	0.00009
	A0	0.00009	0.00011	0.00020
	A1	0.00121	0.00125	0.00135
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00005	0.00006	0.00006
	A1	0.00008	0.00012	0.00022
	B0	0.00085	0.00091	0.00116
	B0	-0.00002	-0.00002	0.00000
	B0	0.00009	0.00009	0.00009
	B0	-0.00000	0.00006	0.00035
	C0	0.00099	0.00103	0.00120
	C0	-0.00007	-0.00006	-0.00005
	C0	0.00009	0.00009	0.00009
	C0	0.00002	0.00007	0.00027

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X0P5H7R	A0	-0.00008	-0.00005	0.00007
	A0	0.00012	0.00012	0.00012
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00109	0.00112	0.00124
	A1	-0.00008	-0.00004	0.00016
	A1	0.00012	0.00012	0.00012
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00097	0.00102	0.00123
	B0	-0.00006	-0.00000	0.00029
	B0	0.00000	0.00002	0.00003
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00079	0.00085	0.00112
	C0	-0.00010	-0.00004	0.00022
	C0	0.00005	0.00006	0.00008
	C0	-0.00006	-0.00006	-0.00005
	C0	0.00084	0.00091	0.00116

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7R	(A1 * B0 * C0 * !Y)	-0.00010	-0.00009	-0.00007
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00020	0.00020	0.00021
	(A1 * B0 * !C0 * !Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * C0 * !Y)	-0.00010	-0.00009	-0.00007
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * C0 * !Y)	0.00020	0.00020	0.00021
	(!A1 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00016	0.00016	0.00017

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7R	(A1 * B0 * C0 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * B0 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * C0 * !Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00016	-0.00015	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7R	(A0 * B0 * C0 * !Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00022	0.00022	0.00023
	(A0 * B0 * !C0 * !Y)	-0.00010	-0.00009	-0.00006
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !B0 * C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7R	(A0 * B0 * C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * B0 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * !B0 * C0 * !Y)	0.00010	0.00011	0.00011
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7R	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00028	0.00028	0.00028

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7R	(A1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	-0.00028	-0.00028	-0.00028

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7R	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	0.00020	0.00021	0.00022
	(!A0 * A1 * B0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	0.00020	0.00021	0.00022

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

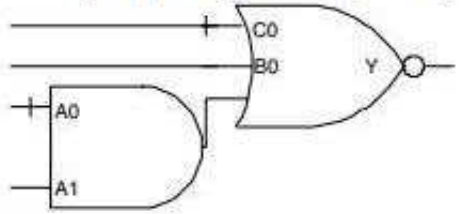
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P5H7R	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * A1 * B0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	-0.00020	-0.00020	-0.00020

AOI211X0P7H7R

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

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

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

Footprint

Cell Name	Area
AOI211X0P7H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X0P7H7R	0.00076	0.00078	0.00080	0.00079	0.01612

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X0P7H7R	0.00000	0.10219	0.47708

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X0P7H7R	A0->Y (FR)	0.06067	0.20611	0.61692
	A1->Y (FR)	0.05689	0.20147	0.61234
	B0->Y (FR)	0.04989	0.20156	0.65024
	C0->Y (FR)	0.05492	0.20560	0.64763

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X0P7H7R	A0->Y (RF)	0.02900	0.11537	0.39669
	A1->Y (RF)	0.02778	0.11312	0.40174
	B0->Y (RF)	0.01448	0.07309	0.30161
	C0->Y (RF)	0.01537	0.07552	0.30339

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X0P7H7R	A0	0.00139	0.00141	0.00151
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00011	0.00011	0.00011
	A0	0.00007	0.00009	0.00019
	A1	0.00127	0.00131	0.00143
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00006	0.00006	0.00006
	A1	0.00006	0.00011	0.00022
	B0	0.00089	0.00095	0.00124
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00011	0.00011	0.00011
	B0	-0.00001	0.00006	0.00039
	C0	0.00105	0.00109	0.00128
	C0	-0.00007	-0.00007	-0.00006
	C0	0.00011	0.00011	0.00011
	C0	0.00001	0.00006	0.00028

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X0P7H7R	A0	-0.00009	-0.00006	0.00008
	A0	0.00013	0.00014	0.00014
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00116	0.00120	0.00134
	A1	-0.00009	-0.00005	0.00019
	A1	0.00013	0.00014	0.00014
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00103	0.00109	0.00133
	B0	-0.00006	0.00000	0.00034
	B0	0.00002	0.00003	0.00004
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00083	0.00090	0.00122
	C0	-0.00010	-0.00004	0.00026
	C0	0.00007	0.00007	0.00010
	C0	-0.00006	-0.00006	-0.00006
	C0	0.00092	0.00098	0.00127

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7R	(A1 * B0 * C0 * !Y)	-0.00011	-0.00010	-0.00007
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00021	0.00021	0.00022
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * C0 * !Y)	-0.00011	-0.00010	-0.00007
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00017	0.00017	0.00018

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7R	(A1 * B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * C0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * !C0 * Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00017	-0.00016	-0.00015

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7R	(A0 * B0 * C0 * !Y)	-0.00011	-0.00010	-0.00008
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * B0 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00022	0.00023	0.00023
	(A0 * !B0 * C0 * !Y)	-0.00012	-0.00010	-0.00007
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7R	(A0 * B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B0 * C0 * !Y)	0.00011	0.00012	0.00012
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7R	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00028	0.00029	0.00029
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00028	0.00029	0.00029
	(!A1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00028	0.00029	0.00029

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

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7R	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * C0 * !Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00029	-0.00029	-0.00028
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	-0.00029	-0.00029	-0.00028

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7R	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !Y)	-0.00013	-0.00012	-0.00010
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	0.00021	0.00022	0.00023
	(!A0 * A1 * B0 * !Y)	-0.00013	-0.00012	-0.00010
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	0.00021	0.00022	0.00023

Passive power(pJ) for C0 falling (conditional):

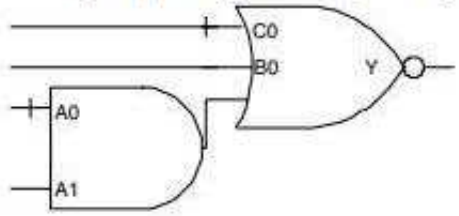
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X0P7H7R	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	-0.00021	-0.00021	-0.00021

AOI211X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X1H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X1H7R	0.00080	0.00083	0.00085	0.00080	0.01926

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X1H7R	0.00000	0.11923	0.55047

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X1H7R	A0->Y (FR)	0.05500	0.20174	0.61782
	A1->Y (FR)	0.05112	0.19710	0.61489
	B0->Y (FR)	0.04449	0.19717	0.65106
	C0->Y (FR)	0.04925	0.20128	0.64858

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X1H7R	A0->Y (RF)	0.02661	0.11401	0.40059
	A1->Y (RF)	0.02535	0.11144	0.40438
	B0->Y (RF)	0.01333	0.07190	0.30392
	C0->Y (RF)	0.01415	0.07440	0.30641

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X1H7R	A0	0.00151	0.00154	0.00167
	A0	-0.00017	-0.00016	-0.00016
	A0	0.00012	0.00013	0.00013
	A0	0.00005	0.00008	0.00020
	A1	0.00138	0.00143	0.00157
	A1	-0.00017	-0.00016	-0.00016
	A1	0.00007	0.00007	0.00008
	A1	0.00005	0.00010	0.00024
	B0	0.00096	0.00103	0.00137
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00013	0.00013	0.00013
	B0	-0.00003	0.00006	0.00045
	C0	0.00114	0.00119	0.00141
	C0	-0.00009	-0.00009	-0.00005
	C0	0.00013	0.00013	0.00013
	C0	-0.00000	0.00005	0.00033

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X1H7R	A0	-0.00010	-0.00007	0.00010
	A0	0.00016	0.00016	0.00017
	A0	-0.00013	-0.00013	-0.00012
	A0	0.00127	0.00133	0.00150
	A1	-0.00010	-0.00005	0.00023
	A1	0.00016	0.00016	0.00017
	A1	-0.00008	-0.00007	-0.00007
	A1	0.00113	0.00120	0.00149
	B0	-0.00008	-0.00000	0.00041
	B0	0.00003	0.00003	0.00006
	B0	-0.00008	-0.00008	-0.00007
	B0	0.00089	0.00098	0.00137
	C0	-0.00011	-0.00004	0.00032
	C0	0.00005	0.00009	0.00009
	C0	-0.00008	-0.00007	-0.00007
	C0	0.00100	0.00108	0.00142

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7R	(A1 * B0 * C0 * !Y)	-0.00013	-0.00011	-0.00009
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !Y)	0.00022	0.00023	0.00023
	(A1 * B0 * !C0 * !Y)	-0.00013	-0.00011	-0.00008
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00022	0.00023	0.00023
	(A1 * !B0 * C0 * !Y)	-0.00013	-0.00011	-0.00009
	(A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7R	(A1 * B0 * C0 * !Y)	0.00012	0.00013	0.00013
	(A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00013
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * !C0 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7R	(A0 * B0 * C0 * !Y)	-0.00013	-0.00011	-0.00009
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * B0 * !C0 * !Y)	-0.00013	-0.00011	-0.00008
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00023	0.00024	0.00024
	(A0 * !B0 * C0 * !Y)	-0.00013	-0.00011	-0.00009
	(A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !B0 * !C0 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7R	(A0 * B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A0 * B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * !C0 * Y)	0.00024	0.00025	0.00025
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7R	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * C0 * !Y)	0.00030	0.00031	0.00031
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	0.00030	0.00031	0.00031
	(!A1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * C0 * !Y)	0.00000	0.00001	0.00000
	(!A1 * C0 * !Y)	0.00030	0.00031	0.00031

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7R	(A1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * C0 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00031	-0.00031	-0.00030
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	-0.00031	-0.00031	-0.00030

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7R	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00024	0.00024	0.00025
	(A0 * A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * !Y)	-0.00014	-0.00013	-0.00012
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * B0 * !Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for C0 falling (conditional):

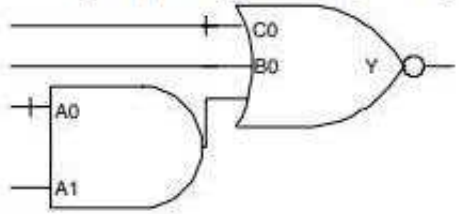
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1H7R	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * B0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * A1 * B0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	-0.00022	-0.00022	-0.00022

AOI211X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X1P4H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X1P4H7R	0.00086	0.00089	0.00094	0.00089	0.02198

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X1P4H7R	0.00000	0.13565	0.62322

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X1P4H7R	A0->Y (FR)	0.05183	0.19915	0.61872
	A1->Y (FR)	0.04789	0.19449	0.61508
	B0->Y (FR)	0.04196	0.19516	0.65175
	C0->Y (FR)	0.04671	0.19943	0.65010

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X1P4H7R	A0->Y (RF)	0.02495	0.11190	0.39873
	A1->Y (RF)	0.02368	0.10909	0.40165
	B0->Y (RF)	0.01265	0.07057	0.30279
	C0->Y (RF)	0.01345	0.07304	0.30467

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X1P4H7R	A0	0.00164	0.00167	0.00182
	A0	-0.00019	-0.00019	-0.00019
	A0	0.00014	0.00015	0.00015
	A0	0.00001	0.00005	0.00019
	A1	0.00150	0.00154	0.00172
	A1	-0.00019	-0.00019	-0.00019
	A1	0.00009	0.00009	0.00009
	A1	0.00001	0.00006	0.00024
	B0	0.00105	0.00112	0.00152
	B0	-0.00004	-0.00003	-0.00002
	B0	0.00014	0.00015	0.00015
	B0	-0.00005	0.00005	0.00050
	C0	0.00126	0.00131	0.00157
	C0	-0.00010	-0.00010	-0.00007
	C0	0.00014	0.00015	0.00015
	C0	-0.00002	0.00004	0.00036

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X1P4H7R	A0	-0.00011	-0.00008	0.00012
	A0	0.00019	0.00019	0.00019
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00141	0.00148	0.00167
	A1	-0.00012	-0.00006	0.00027
	A1	0.00019	0.00019	0.00019
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00124	0.00133	0.00166
	B0	-0.00009	0.00000	0.00047
	B0	0.00003	0.00003	0.00004
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00099	0.00109	0.00153
	C0	-0.00013	-0.00005	0.00036
	C0	0.00009	0.00010	0.00012
	C0	-0.00009	-0.00009	-0.00009
	C0	0.00110	0.00120	0.00159

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7R	(A1 * B0 * C0 * !Y)	-0.00014	-0.00013	-0.00010
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * B0 * !C0 * !Y)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * C0 * !Y)	-0.00014	-0.00013	-0.00010
	(A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A1 * !B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7R	(A1 * B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * C0 * !Y)	0.00014	0.00014	0.00015
	(A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * C0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !C0 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00019	-0.00019	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7R	(A0 * B0 * C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * B0 * !C0 * !Y)	-0.00014	-0.00012	-0.00009
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * C0 * !Y)	-0.00015	-0.00013	-0.00010
	(A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7R	(A0 * B0 * C0 * !Y)	0.00014	0.00015	0.00015
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B0 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7R	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * C0 * !Y)	0.00033	0.00034	0.00034
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	0.00033	0.00034	0.00034
	(!A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00033	0.00034	0.00034

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7R	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * C0 * !Y)	-0.00034	-0.00034	-0.00033
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00034	-0.00034	-0.00033
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * C0 * !Y)	-0.00034	-0.00034	-0.00033

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7R	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00025	0.00025	0.00026
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00024	0.00025	0.00025
	(!A1 * B0 * !Y)	-0.00017	-0.00016	-0.00014
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00023	0.00024	0.00025
	(!A0 * A1 * B0 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00023	0.00024	0.00025

Passive power(pJ) for C0 falling (conditional):

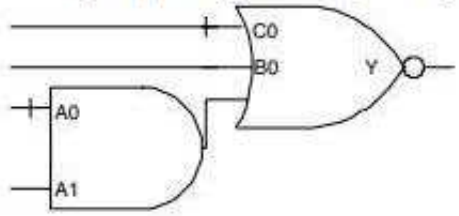
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X1P4H7R	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * !Y)	-0.00023	-0.00023	-0.00023

AOI211X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X2H7R	0.00094	0.00098	0.00102	0.00098	0.02584

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X2H7R	0.00000	0.16093	0.73787

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X2H7R	A0->Y (FR)	0.04822	0.19620	0.61984
	A1->Y (FR)	0.04400	0.19131	0.61556
	B0->Y (FR)	0.03804	0.19180	0.65154
	C0->Y (FR)	0.04333	0.19673	0.65042

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X2H7R	A0->Y (RF)	0.02259	0.10792	0.39192
	A1->Y (RF)	0.02127	0.10484	0.39443
	B0->Y (RF)	0.01149	0.06768	0.29697
	C0->Y (RF)	0.01237	0.07037	0.29947

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X2H7R	A0	0.00182	0.00186	0.00203
	A0	-0.00023	-0.00023	-0.00022
	A0	0.00017	0.00018	0.00018
	A0	-0.00002	0.00002	0.00019
	A1	0.00164	0.00170	0.00193
	A1	-0.00023	-0.00023	-0.00022
	A1	0.00010	0.00011	0.00011
	A1	-0.00002	0.00004	0.00026
	B0	0.00113	0.00122	0.00171
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00017	0.00017	0.00018
	B0	-0.00009	0.00003	0.00059
	C0	0.00138	0.00144	0.00175
	C0	-0.00012	-0.00012	-0.00011
	C0	0.00017	0.00018	0.00018
	C0	-0.00006	0.00001	0.00040

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X2H7R	A0	-0.00013	-0.00009	0.00015
	A0	0.00022	0.00023	0.00023
	A0	-0.00018	-0.00018	-0.00017
	A0	0.00160	0.00167	0.00190
	A1	-0.00014	-0.00007	0.00033
	A1	0.00022	0.00023	0.00023
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00136	0.00150	0.00189
	B0	-0.00010	0.00000	0.00058
	B0	0.00004	0.00004	0.00005
	B0	-0.00011	-0.00011	-0.00010
	B0	0.00109	0.00121	0.00175
	C0	-0.00016	-0.00005	0.00044
	C0	0.00012	0.00012	0.00017
	C0	-0.00011	-0.00011	-0.00010
	C0	0.00122	0.00136	0.00182

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7R	(A1 * B0 * C0 * !Y)	-0.00016	-0.00015	-0.00012
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * B0 * !C0 * !Y)	-0.00016	-0.00014	-0.00011
	(A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * C0 * !Y)	-0.00017	-0.00015	-0.00012
	(A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * C0 * !Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7R	(A1 * B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A1 * B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * C0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7R	(A0 * B0 * C0 * !Y)	-0.00017	-0.00015	-0.00012
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * B0 * !C0 * !Y)	-0.00017	-0.00014	-0.00011
	(A0 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * C0 * !Y)	-0.00017	-0.00015	-0.00012
	(A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * C0 * !Y)	0.00024	0.00025	0.00025
	(!A0 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * !Y)	0.00024	0.00025	0.00025
	(!A0 * !B0 * !C0 * Y)	-0.00031	-0.00030	-0.00030
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7R	(A0 * B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * C0 * !Y)	0.00017	0.00017	0.00018
	(A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B0 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7R	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * C0 * !Y)	0.00035	0.00036	0.00036
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	0.00036	0.00036	0.00036
	(!A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00036	0.00036	0.00036

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7R	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * C0 * !Y)	-0.00036	-0.00036	-0.00035
	(A0 * A1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !C0 * !Y)	-0.00036	-0.00036	-0.00036
	(!A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * C0 * !Y)	-0.00036	-0.00036	-0.00035

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7R	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00026	0.00026	0.00028
	(!A0 * A1 * B0 * !Y)	-0.00019	-0.00017	-0.00015
	(!A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00026	0.00026	0.00028

Passive power(pJ) for C0 falling (conditional):

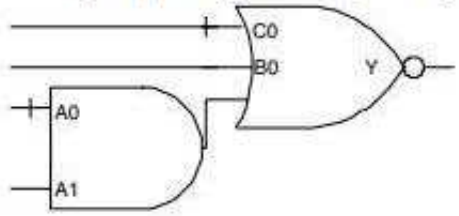
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X2H7R	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00005	0.00006	0.00006
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * !Y)	-0.00026	-0.00026	-0.00025

AOI211X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X3H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X3H7R	0.00172	0.00153	0.00156	0.00167	0.04055

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X3H7R	0.00000	0.25186	1.16324

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X3H7R	A0->Y (FR)	0.04519	0.19360	0.61791
	A1->Y (FR)	0.03992	0.18746	0.61413
	B0->Y (FR)	0.03386	0.18812	0.65039
	C0->Y (FR)	0.04069	0.19412	0.65017

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X3H7R	A0->Y (RF)	0.02157	0.10771	0.39602
	A1->Y (RF)	0.01944	0.10416	0.39876
	B0->Y (RF)	0.01064	0.06686	0.30026
	C0->Y (RF)	0.01185	0.07005	0.30312

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X3H7R	A0	0.00288	0.00294	0.00325
	A0	-0.00035	-0.00035	-0.00034
	A0	0.00027	0.00027	0.00027
	A0	-0.00016	-0.00009	0.00021
	A1	0.00252	0.00261	0.00304
	A1	-0.00035	-0.00035	-0.00034
	A1	0.00014	0.00016	0.00016
	A1	-0.00008	0.00002	0.00043
	B0	0.00169	0.00184	0.00267
	B0	-0.00006	-0.00006	-0.00004
	B0	0.00027	0.00027	0.00027
	B0	-0.00025	-0.00006	0.00091
	C0	0.00212	0.00223	0.00278
	C0	-0.00020	-0.00018	-0.00014
	C0	0.00027	0.00027	0.00027
	C0	-0.00023	-0.00010	0.00057

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X3H7R	A0	-0.00022	-0.00015	0.00025
	A0	0.00034	0.00035	0.00035
	A0	-0.00027	-0.00027	-0.00027
	A0	0.00262	0.00275	0.00316
	A1	-0.00020	-0.00009	0.00057
	A1	0.00034	0.00035	0.00035
	A1	-0.00016	-0.00016	-0.00014
	A1	0.00217	0.00235	0.00302
	B0	-0.00012	0.00006	0.00104
	B0	0.00005	0.00006	0.00007
	B0	-0.00016	-0.00016	-0.00015
	B0	0.00181	0.00198	0.00289
	C0	-0.00022	-0.00005	0.00076
	C0	0.00014	0.00018	0.00024
	C0	-0.00016	-0.00016	-0.00016
	C0	0.00209	0.00227	0.00303

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7R	(A1 * B0 * C0 * !Y)	-0.00028	-0.00024	-0.00019
	(A1 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00050	0.00051	0.00052
	(A1 * B0 * !C0 * !Y)	-0.00027	-0.00023	-0.00017
	(A1 * B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00050	0.00050	0.00051
	(A1 * !B0 * C0 * !Y)	-0.00028	-0.00024	-0.00019
	(A1 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !Y)	0.00050	0.00051	0.00052
	(!A1 * C0 * !Y)	-0.00037	-0.00036	-0.00036
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * C0 * !Y)	0.00045	0.00046	0.00046
	(!A1 * B0 * !C0 * !Y)	-0.00037	-0.00036	-0.00036
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * !C0 * !Y)	0.00046	0.00046	0.00046
	(!A1 * !B0 * !C0 * Y)	-0.00041	-0.00041	-0.00041
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00043	0.00043	0.00043

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7R	(A1 * B0 * C0 * !Y)	0.00027	0.00028	0.00028
	(A1 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00050	-0.00050	-0.00050
	(A1 * B0 * !C0 * !Y)	0.00027	0.00027	0.00027
	(A1 * B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00050	-0.00050	-0.00049
	(A1 * !B0 * C0 * !Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !Y)	-0.00050	-0.00050	-0.00050
	(!A1 * C0 * !Y)	0.00036	0.00037	0.00037
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * C0 * !Y)	-0.00046	-0.00045	-0.00043
	(!A1 * B0 * !C0 * !Y)	0.00036	0.00036	0.00037
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * !C0 * !Y)	-0.00046	-0.00045	-0.00043
	(!A1 * !B0 * !C0 * Y)	0.00041	0.00042	0.00043
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00042	-0.00040	-0.00038

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7R	(A0 * B0 * C0 * !Y)	-0.00025	-0.00022	-0.00017
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00043	0.00044	0.00044
	(A0 * B0 * !C0 * !Y)	-0.00024	-0.00021	-0.00016
	(A0 * B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00043	0.00043	0.00044
	(A0 * !B0 * C0 * !Y)	-0.00025	-0.00022	-0.00017
	(A0 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	0.00043	0.00044	0.00044
	(!A0 * B0 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * B0 * C0 * !Y)	0.00039	0.00039	0.00039
	(!A0 * B0 * !C0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * !C0 * !Y)	0.00038	0.00039	0.00039
	(!A0 * !B0 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * C0 * !Y)	0.00039	0.00039	0.00039
	(!A0 * !B0 * !C0 * Y)	-0.00044	-0.00044	-0.00044
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00005	0.00005	0.00006
	(!A0 * !B0 * !C0 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7R	(A0 * B0 * C0 * !Y)	0.00024	0.00024	0.00025
	(A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00043	-0.00043	-0.00043
	(A0 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	-0.00043	-0.00043	-0.00043
	(A0 * !B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	-0.00043	-0.00043	-0.00043
	(!A0 * B0 * C0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B0 * C0 * !Y)	-0.00039	-0.00038	-0.00036
	(!A0 * B0 * !C0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * !C0 * !Y)	-0.00039	-0.00038	-0.00036
	(!A0 * !B0 * C0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * C0 * !Y)	-0.00039	-0.00038	-0.00036
	(!A0 * !B0 * !C0 * Y)	0.00044	0.00044	0.00045
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * !C0 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7R	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * C0 * !Y)	0.00057	0.00057	0.00058
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	0.00057	0.00057	0.00057
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00057	0.00057	0.00057

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7R	(A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00005	0.00006	0.00006
	(A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * C0 * !Y)	-0.00057	-0.00057	-0.00057
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	-0.00057	-0.00057	-0.00057
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00057	-0.00057	-0.00057

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7R	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00053	0.00054	0.00054
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00052	0.00052	0.00052
	(!A1 * B0 * !Y)	-0.00030	-0.00028	-0.00024
	(!A1 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00048	0.00049	0.00051
	(!A0 * A1 * B0 * !Y)	-0.00030	-0.00028	-0.00024
	(!A0 * A1 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00048	0.00049	0.00052

Passive power(pJ) for C0 falling (conditional):

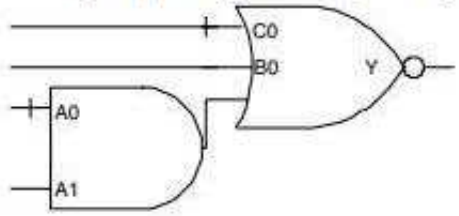
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X3H7R	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00053	-0.00052	-0.00052
	(A0 * A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00052	-0.00052	-0.00052
	(!A1 * B0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00048	-0.00048	-0.00047
	(!A0 * A1 * B0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00049	-0.00048	-0.00047

AOI211X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X4H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X4H7R	0.00205	0.00175	0.00180	0.00196	0.05190

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X4H7R	0.00000	0.32186	1.47575

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X4H7R	A0->Y (FR)	0.04297	0.19257	0.62167
	A1->Y (FR)	0.03737	0.18623	0.61673
	B0->Y (FR)	0.03076	0.18572	0.65158
	C0->Y (FR)	0.03781	0.19220	0.65213

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X4H7R	A0->Y (RF)	0.02004	0.10550	0.39300
	A1->Y (RF)	0.01778	0.10154	0.39389
	B0->Y (RF)	0.00985	0.06485	0.29679
	C0->Y (RF)	0.01105	0.06815	0.29978

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X4H7R	A0	0.00359	0.00366	0.00404
	A0	-0.00046	-0.00046	-0.00045
	A0	0.00035	0.00035	0.00035
	A0	-0.00016	-0.00009	0.00028
	A1	0.00311	0.00322	0.00376
	A1	-0.00046	-0.00046	-0.00045
	A1	0.00021	0.00021	0.00022
	A1	-0.00007	0.00005	0.00057
	B0	0.00202	0.00221	0.00329
	B0	-0.00008	-0.00008	-0.00006
	B0	0.00035	0.00035	0.00035
	B0	-0.00029	-0.00006	0.00120
	C0	0.00258	0.00271	0.00341
	C0	-0.00025	-0.00024	-0.00023
	C0	0.00035	0.00035	0.00036
	C0	-0.00029	-0.00013	0.00073

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X4H7R	A0	-0.00029	-0.00019	0.00030
	A0	0.00045	0.00046	0.00046
	A0	-0.00035	-0.00035	-0.00035
	A0	0.00320	0.00338	0.00388
	A1	-0.00025	-0.00011	0.00073
	A1	0.00045	0.00046	0.00046
	A1	-0.00021	-0.00021	-0.00021
	A1	0.00258	0.00286	0.00372
	B0	-0.00017	0.00006	0.00133
	B0	0.00007	0.00008	0.00010
	B0	-0.00021	-0.00021	-0.00020
	B0	0.00212	0.00235	0.00353
	C0	-0.00026	-0.00006	0.00096
	C0	0.00024	0.00024	0.00029
	C0	-0.00021	-0.00021	-0.00018
	C0	0.00255	0.00275	0.00372

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7R	(A1 * B0 * C0 * !Y)	-0.00036	-0.00032	-0.00025
	(A1 * B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00057	0.00058	0.00060
	(A1 * B0 * !C0 * !Y)	-0.00036	-0.00030	-0.00022
	(A1 * B0 * !C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00057	0.00058	0.00059
	(A1 * !B0 * C0 * !Y)	-0.00037	-0.00032	-0.00024
	(A1 * !B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * C0 * !Y)	0.00057	0.00058	0.00059
	(!A1 * C0 * !Y)	-0.00048	-0.00048	-0.00047
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * C0 * !Y)	0.00051	0.00052	0.00052
	(!A1 * B0 * !C0 * !Y)	-0.00048	-0.00048	-0.00047
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !C0 * !Y)	0.00051	0.00052	0.00052
	(!A1 * !B0 * !C0 * Y)	-0.00053	-0.00052	-0.00052
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00048	0.00049	0.00049

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7R	(A1 * B0 * C0 * !Y)	0.00036	0.00036	0.00036
	(A1 * B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00058	-0.00057	-0.00057
	(A1 * B0 * !C0 * !Y)	0.00035	0.00035	0.00036
	(A1 * B0 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	-0.00057	-0.00057	-0.00056
	(A1 * !B0 * C0 * !Y)	0.00036	0.00037	0.00037
	(A1 * !B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !Y)	-0.00057	-0.00057	-0.00057
	(!A1 * C0 * !Y)	0.00047	0.00048	0.00048
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * C0 * !Y)	-0.00052	-0.00050	-0.00048
	(!A1 * B0 * !C0 * !Y)	0.00047	0.00048	0.00048
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !C0 * !Y)	-0.00052	-0.00050	-0.00048
	(!A1 * !B0 * !C0 * Y)	0.00053	0.00054	0.00055
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00047	-0.00045	-0.00042

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7R	(A0 * B0 * C0 * !Y)	-0.00031	-0.00028	-0.00022
	(A0 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00047	0.00048	0.00049
	(A0 * B0 * !C0 * !Y)	-0.00031	-0.00027	-0.00021
	(A0 * B0 * !C0 * !Y)	-0.00006	-0.00005	-0.00004
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !C0 * !Y)	0.00047	0.00048	0.00048
	(A0 * !B0 * C0 * !Y)	-0.00032	-0.00028	-0.00022
	(A0 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * C0 * !Y)	0.00047	0.00048	0.00049
	(!A0 * B0 * C0 * !Y)	-0.00040	-0.00039	-0.00039
	(!A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * C0 * !Y)	0.00042	0.00042	0.00043
	(!A0 * B0 * !C0 * !Y)	-0.00040	-0.00039	-0.00039
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * !C0 * !Y)	0.00042	0.00042	0.00043
	(!A0 * !B0 * C0 * !Y)	-0.00040	-0.00039	-0.00039
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * C0 * !Y)	0.00042	0.00042	0.00042
	(!A0 * !B0 * !C0 * Y)	-0.00054	-0.00054	-0.00054
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * !C0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7R	(A0 * B0 * C0 * !Y)	0.00031	0.00031	0.00031
	(A0 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00048	-0.00048	-0.00047
	(A0 * B0 * !C0 * !Y)	0.00031	0.00031	0.00031
	(A0 * B0 * !C0 * !Y)	0.00004	0.00005	0.00006
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	-0.00048	-0.00047	-0.00046
	(A0 * !B0 * C0 * !Y)	0.00031	0.00032	0.00032
	(A0 * !B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	-0.00048	-0.00047	-0.00047
	(!A0 * B0 * C0 * !Y)	0.00039	0.00040	0.00040
	(!A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * C0 * !Y)	-0.00043	-0.00041	-0.00039
	(!A0 * B0 * !C0 * !Y)	0.00039	0.00039	0.00040
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !C0 * !Y)	-0.00043	-0.00041	-0.00038
	(!A0 * !B0 * C0 * !Y)	0.00039	0.00039	0.00040
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * C0 * !Y)	-0.00042	-0.00041	-0.00039
	(!A0 * !B0 * !C0 * Y)	0.00054	0.00054	0.00054
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7R	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * C0 * !Y)	0.00064	0.00064	0.00064
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !C0 * !Y)	0.00064	0.00064	0.00064
	(!A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * C0 * !Y)	0.00064	0.00064	0.00064

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7R	(A1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * C0 * !Y)	0.00007	0.00007	0.00007
	(A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * C0 * !Y)	-0.00064	-0.00064	-0.00064
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !C0 * !Y)	-0.00064	-0.00064	-0.00064
	(!A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * C0 * !Y)	-0.00064	-0.00064	-0.00063

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7R	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00062	0.00062	0.00063
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00060	0.00060	0.00060
	(!A1 * B0 * !Y)	-0.00037	-0.00034	-0.00029
	(!A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00056	0.00057	0.00060
	(!A0 * A1 * B0 * !Y)	-0.00037	-0.00034	-0.00029
	(!A0 * A1 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00056	0.00057	0.00059

Passive power(pJ) for C0 falling (conditional):

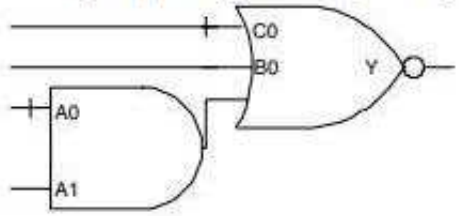
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X4H7R	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00015	0.00015	0.00015
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00061	-0.00061	-0.00060
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00060	-0.00060	-0.00060
	(!A1 * B0 * !Y)	0.00037	0.00037	0.00038
	(!A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00056	-0.00055	-0.00055
	(!A0 * A1 * B0 * !Y)	0.00037	0.00037	0.00038
	(!A0 * A1 * B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00056	-0.00055	-0.00055

AOI211X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI211 cell provides the logical inverted OR of one AND group and two additional inputs.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	x	0	0	1
0	x	x	1	0
x	x	1	x	0
1	0	0	0	1
1	0	x	1	0
1	1	x	x	0

Footprint

Cell Name	Area
AOI211X6H7R	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
AOI211X6H7R	0.00321	0.00314	0.00339	0.00329	0.08078

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI211X6H7R	0.00000	0.50372	2.32649

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X6H7R	A0->Y (FR)	0.04266	0.19112	0.61763
	A1->Y (FR)	0.03712	0.18481	0.61173
	B0->Y (FR)	0.03842	0.19224	0.65062
	C0->Y (FR)	0.03182	0.18643	0.65088

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI211X6H7R	A0->Y (RF)	0.02004	0.10588	0.39478
	A1->Y (RF)	0.01827	0.10257	0.39800
	B0->Y (RF)	0.01129	0.06894	0.30251
	C0->Y (RF)	0.01013	0.06574	0.29967

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X6H7R	A0	0.00567	0.00580	0.00647
	A0	-0.00070	-0.00069	-0.00068
	A0	0.00054	0.00054	0.00054
	A0	-0.00034	-0.00020	0.00045
	A1	0.00508	0.00526	0.00618
	A1	-0.00070	-0.00069	-0.00068
	A1	0.00032	0.00032	0.00032
	A1	-0.00017	0.00002	0.00092
	B0	0.00426	0.00449	0.00563
	B0	-0.00037	-0.00036	-0.00028
	B0	0.00053	0.00054	0.00056
	B0	-0.00049	-0.00022	0.00120
	C0	0.00343	0.00375	0.00546
	C0	-0.00013	-0.00012	0.00000
	C0	0.00053	0.00054	0.00054
	C0	-0.00051	-0.00012	0.00188

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI211X6H7R	A0	-0.00043	-0.00027	0.00056
	A0	0.00068	0.00069	0.00070
	A0	-0.00054	-0.00054	-0.00054
	A0	0.00527	0.00548	0.00632
	A1	-0.00042	-0.00018	0.00117
	A1	0.00068	0.00069	0.00070
	A1	-0.00032	-0.00032	-0.00032
	A1	0.00439	0.00475	0.00613
	B0	-0.00038	-0.00007	0.00158
	B0	0.00036	0.00037	0.00046
	B0	-0.00032	-0.00032	-0.00031
	B0	0.00418	0.00459	0.00615
	C0	-0.00025	0.00013	0.00213
	C0	0.00012	0.00012	0.00015
	C0	-0.00032	-0.00032	-0.00031
	C0	0.00371	0.00402	0.00589

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7R	(A1 * B0 * C0 * !Y)	-0.00050	-0.00044	-0.00035
	(A1 * B0 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(A1 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	0.00103	0.00104	0.00106
	(A1 * B0 * !C0 * !Y)	-0.00051	-0.00044	-0.00035
	(A1 * B0 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * !C0 * !Y)	0.00001	0.00002	0.00005
	(A1 * B0 * !C0 * !Y)	0.00103	0.00104	0.00105
	(A1 * !B0 * C0 * !Y)	-0.00050	-0.00042	-0.00033
	(A1 * !B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * !Y)	0.00102	0.00103	0.00104
	(!A1 * B0 * !Y)	-0.00063	-0.00063	-0.00063
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * !Y)	0.00094	0.00095	0.00095
	(!A1 * !B0 * C0 * !Y)	-0.00063	-0.00063	-0.00062
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * C0 * !Y)	0.00094	0.00095	0.00095
	(!A1 * !B0 * !C0 * Y)	-0.00075	-0.00075	-0.00074
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * Y)	0.00085	0.00086	0.00086

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7R	(A1 * B0 * C0 * !Y)	0.00049	0.00049	0.00050
	(A1 * B0 * C0 * !Y)	0.00006	0.00006	0.00007
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00103	-0.00103	-0.00102
	(A1 * B0 * !C0 * !Y)	0.00050	0.00050	0.00051
	(A1 * B0 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !C0 * !Y)	-0.00103	-0.00103	-0.00102
	(A1 * !B0 * C0 * !Y)	0.00048	0.00049	0.00050
	(A1 * !B0 * C0 * !Y)	0.00007	0.00007	0.00008
	(A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * !Y)	-0.00103	-0.00102	-0.00101
	(!A1 * B0 * !Y)	0.00063	0.00063	0.00063
	(!A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * !Y)	-0.00095	-0.00092	-0.00089
	(!A1 * !B0 * C0 * !Y)	0.00062	0.00063	0.00063
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * C0 * !Y)	-0.00095	-0.00092	-0.00089
	(!A1 * !B0 * !C0 * Y)	0.00076	0.00077	0.00081
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * Y)	-0.00083	-0.00080	-0.00077

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7R	(A0 * B0 * C0 * !Y)	-0.00054	-0.00047	-0.00037
	(A0 * B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	0.00084	0.00085	0.00087
	(A0 * B0 * !C0 * !Y)	-0.00055	-0.00048	-0.00037
	(A0 * B0 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	0.00084	0.00085	0.00086
	(A0 * !B0 * C0 * !Y)	-0.00053	-0.00045	-0.00034
	(A0 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00006
	(A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * C0 * !Y)	0.00083	0.00084	0.00085
	(!A0 * B0 * C0 * !Y)	-0.00070	-0.00070	-0.00069
	(!A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * B0 * C0 * !Y)	0.00074	0.00075	0.00076
	(!A0 * B0 * !C0 * !Y)	-0.00070	-0.00070	-0.00069
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * B0 * !C0 * !Y)	0.00074	0.00075	0.00075
	(!A0 * !B0 * C0 * !Y)	-0.00070	-0.00070	-0.00069
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * C0 * !Y)	0.00074	0.00075	0.00075
	(!A0 * !B0 * !C0 * Y)	-0.00093	-0.00092	-0.00091
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * Y)	0.00010	0.00011	0.00011
	(!A0 * !B0 * !C0 * Y)	0.00020	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7R	(A0 * B0 * C0 * !Y)	0.00053	0.00054	0.00054
	(A0 * B0 * C0 * !Y)	0.00007	0.00007	0.00008
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00084	-0.00084	-0.00083
	(A0 * B0 * !C0 * !Y)	0.00054	0.00055	0.00055
	(A0 * B0 * !C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !C0 * !Y)	-0.00084	-0.00084	-0.00083
	(A0 * !B0 * C0 * !Y)	0.00053	0.00053	0.00053
	(A0 * !B0 * C0 * !Y)	0.00006	0.00008	0.00008
	(A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * C0 * !Y)	-0.00084	-0.00083	-0.00083
	(!A0 * B0 * C0 * !Y)	0.00069	0.00070	0.00070
	(!A0 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * B0 * C0 * !Y)	-0.00075	-0.00073	-0.00069
	(!A0 * B0 * !C0 * !Y)	0.00069	0.00070	0.00070
	(!A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * !C0 * !Y)	-0.00075	-0.00073	-0.00069
	(!A0 * !B0 * C0 * !Y)	0.00069	0.00070	0.00070
	(!A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * C0 * !Y)	-0.00075	-0.00073	-0.00069
	(!A0 * !B0 * !C0 * Y)	0.00092	0.00093	0.00093
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * !C0 * Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7R	(A0 * A1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * C0 * !Y)	0.00108	0.00109	0.00110
	(A0 * A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	-0.00016	-0.00016	-0.00015
	(A0 * A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !C0 * !Y)	0.00105	0.00106	0.00106
	(!A1 * C0 * !Y)	-0.00057	-0.00053	-0.00046
	(!A1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * C0 * !Y)	0.00099	0.00101	0.00106
	(!A0 * A1 * C0 * !Y)	-0.00057	-0.00053	-0.00046
	(!A0 * A1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * C0 * !Y)	0.00099	0.00101	0.00106

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7R	(A0 * A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * C0 * !Y)	-0.00107	-0.00107	-0.00105
	(A0 * A1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !C0 * !Y)	0.00015	0.00016	0.00016
	(A0 * A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !C0 * !Y)	-0.00106	-0.00106	-0.00105
	(!A1 * C0 * !Y)	0.00058	0.00058	0.00058
	(!A1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * C0 * !Y)	-0.00099	-0.00098	-0.00097
	(!A0 * A1 * C0 * !Y)	0.00058	0.00058	0.00058
	(!A0 * A1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * C0 * !Y)	-0.00099	-0.00098	-0.00097

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7R	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	0.00116	0.00117	0.00117
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !Y)	0.00117	0.00117	0.00117
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00117	0.00117	0.00117

Passive power(pJ) for C0 falling (conditional):

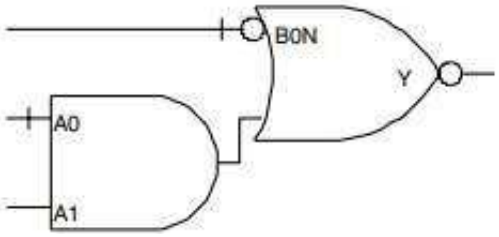
Cell Name	When	Power(pJ)		
		min	avg	max
AOI211X6H7R	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	-0.00117	-0.00116	-0.00116
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !Y)	-0.00117	-0.00117	-0.00117
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00117	-0.00116	-0.00115

AOI21BX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX0P5H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX0P5H7R	0.00063	0.00068	0.00072	0.02235

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX0P5H7R	0.00000	0.20075	0.32734

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX0P5H7R	A0->Y (FR)	0.03739	0.19434	0.65797
	A1->Y (FR)	0.03489	0.19004	0.65448
	B0N->Y (RR)	0.04687	0.17944	0.50478

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX0P5H7R	A0->Y (RF)	0.02556	0.13935	0.50579
	A1->Y (RF)	0.02423	0.13764	0.51640
	B0N->Y (FF)	0.03312	0.10657	0.28039

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX0P5H7R	A0	0.00091	0.00094	0.00111
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00007	0.00007	0.00007
	A0	0.00015	0.00018	0.00035
	A1	0.00080	0.00084	0.00104
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00003	0.00004	0.00004
	A1	0.00015	0.00020	0.00039
	B0N	0.00059	0.00072	0.00112
	B0N	-0.00000	0.00000	0.00000
	B0N	0.00004	0.00006	0.00006
	B0N	0.00091	0.00104	0.00144

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX0P5H7R	A0	-0.00008	-0.00005	0.00012
	A0	0.00008	0.00008	0.00008
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00062	0.00069	0.00086
	A1	-0.00008	-0.00003	0.00023
	A1	0.00008	0.00008	0.00008
	A1	-0.00004	-0.00003	-0.00003
	A1	0.00053	0.00058	0.00085
	B0N	0.00094	0.00108	0.00152
	B0N	-0.00000	0.00000	0.00000
	B0N	-0.00002	-0.00002	-0.00002
	B0N	0.00062	0.00076	0.00120

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7R	(A1 * !B0N * !Y)	-0.00011	-0.00010	-0.00008
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00019	0.00020	0.00021
	(!A1 * B0N * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00000	0.00000	0.00001
	(!A1 * B0N * Y)	0.00018	0.00018	0.00019
	(!A1 * !B0N * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7R	(A1 * !B0N * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0N * Y)	0.00015	0.00015	0.00015
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0N * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B0N * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0N * !Y)	-0.00018	-0.00017	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7R	(A0 * !B0N * !Y)	-0.00012	-0.00010	-0.00009
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00020	0.00021	0.00021
	(!A0 * B0N * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00002	0.00002	0.00003
	(!A0 * B0N * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0N * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7R	(A0 * !B0N * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0N * Y)	0.00019	0.00019	0.00019
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0N * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7R	(A0 * A1 * !Y)	-0.00008	0.00002	0.00042
	(A0 * A1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !Y)	0.00052	0.00063	0.00103

Passive power(pJ) for B0N falling (conditional):

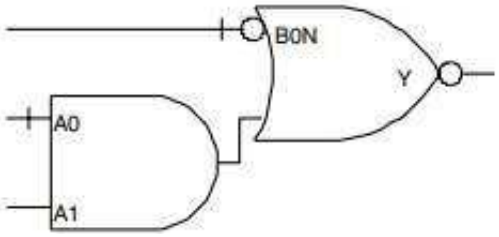
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P5H7R	(A0 * A1 * !Y)	0.00079	0.00092	0.00136
	(A0 * A1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !Y)	0.00019	0.00031	0.00075

AOI21BX0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX0P7H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX0P7H7R	0.00063	0.00068	0.00076	0.02371

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX0P7H7R	0.00000	0.22241	0.35197

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX0P7H7R	A0->Y (FR)	0.03662	0.19585	0.66810
	A1->Y (FR)	0.03431	0.19174	0.66358
	B0N->Y (RR)	0.04499	0.17756	0.50382

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX0P7H7R	A0->Y (RF)	0.02620	0.14523	0.52553
	A1->Y (RF)	0.02495	0.14357	0.53577
	B0N->Y (FF)	0.03083	0.10082	0.26630

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX0P7H7R	A0	0.00093	0.00097	0.00114
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00008	0.00008	0.00008
	A0	0.00017	0.00019	0.00036
	A1	0.00083	0.00087	0.00107
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00004	0.00004	0.00004
	A1	0.00017	0.00021	0.00041
	B0N	0.00061	0.00076	0.00121
	B0N	-0.00000	0.00000	0.00000
	B0N	0.00006	0.00006	0.00009
	B0N	0.00097	0.00111	0.00156

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX0P7H7R	A0	-0.00008	-0.00005	0.00012
	A0	0.00009	0.00009	0.00009
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00064	0.00070	0.00088
	A1	-0.00008	-0.00003	0.00023
	A1	0.00009	0.00009	0.00009
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00053	0.00059	0.00086
	B0N	0.00099	0.00115	0.00164
	B0N	0.00000	0.00000	0.00000
	B0N	-0.00002	-0.00002	-0.00002
	B0N	0.00065	0.00080	0.00130

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7R	(A1 * !B0N * !Y)	-0.00011	-0.00010	-0.00008
	(A1 * !B0N * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00019	0.00020	0.00021
	(!A1 * B0N * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00000	0.00001	0.00001
	(!A1 * B0N * Y)	0.00018	0.00018	0.00019
	(!A1 * !B0N * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7R	(A1 * !B0N * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0N * Y)	0.00015	0.00015	0.00015
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00001	-0.00001	0.00000
	(!A1 * B0N * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B0N * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	-0.00018	-0.00017	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7R	(A0 * !B0N * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00020	0.00021	0.00021
	(!A0 * B0N * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00002	0.00002	0.00003
	(!A0 * B0N * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0N * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7R	(A0 * !B0N * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0N * Y)	0.00019	0.00019	0.00019
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B0N * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7R	(A0 * A1 * !Y)	-0.00009	0.00003	0.00047
	(A0 * A1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !Y)	0.00055	0.00068	0.00112

Passive power(pJ) for B0N falling (conditional):

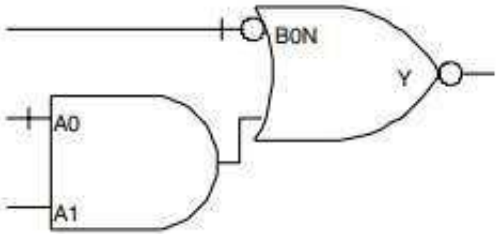
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX0P7H7R	(A0 * A1 * !Y)	0.00084	0.00098	0.00147
	(A0 * A1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !Y)	0.00019	0.00033	0.00082

AOI21BX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX1H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX1H7R	0.00064	0.00070	0.00082	0.02536

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX1H7R	0.00000	0.25336	0.38713

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX1H7R	A0->Y (FR)	0.03595	0.19718	0.67616
	A1->Y (FR)	0.03396	0.19350	0.67369
	B0N->Y (RR)	0.04310	0.17508	0.50082

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX1H7R	A0->Y (RF)	0.02726	0.15263	0.54962
	A1->Y (RF)	0.02616	0.15111	0.55874
	B0N->Y (FF)	0.02814	0.09379	0.24858

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX1H7R	A0	0.00096	0.00101	0.00118
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00008	0.00008	0.00008
	A0	0.00019	0.00022	0.00039
	A1	0.00088	0.00093	0.00112
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00004	0.00004	0.00007
	A1	0.00019	0.00024	0.00043
	B0N	0.00065	0.00082	0.00136
	B0N	-0.00000	0.00000	0.00000
	B0N	0.00002	0.00006	0.00006
	B0N	0.00105	0.00122	0.00175

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX1H7R	A0	-0.00008	-0.00005	0.00012
	A0	0.00010	0.00010	0.00010
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00068	0.00072	0.00090
	A1	-0.00008	-0.00003	0.00022
	A1	0.00010	0.00010	0.00010
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00053	0.00062	0.00089
	B0N	0.00107	0.00125	0.00182
	B0N	-0.00000	0.00000	0.00000
	B0N	-0.00002	-0.00002	-0.00002
	B0N	0.00068	0.00086	0.00143

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7R	(A1 * !B0N * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B0N * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00020	0.00020	0.00022
	(!A1 * B0N * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	0.00018	0.00018	0.00019
	(!A1 * !B0N * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7R	(A1 * !B0N * !Y)	0.00011	0.00012	0.00012
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0N * Y)	0.00015	0.00015	0.00015
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0N * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0N * !Y)	-0.00018	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7R	(A0 * !B0N * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00021	0.00021	0.00022
	(!A0 * B0N * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00002	0.00002	0.00003
	(!A0 * B0N * Y)	0.00007	0.00008	0.00008
	(!A0 * !B0N * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7R	(A0 * !B0N * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * B0N * Y)	0.00020	0.00020	0.00020
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0N * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !B0N * !Y)	0.00014	0.00014	0.00015
	(!A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	-0.00019	-0.00019	-0.00018

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7R	(A0 * A1 * !Y)	-0.00011	0.00004	0.00056
	(A0 * A1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !Y)	0.00060	0.00074	0.00127

Passive power(pJ) for B0N falling (conditional):

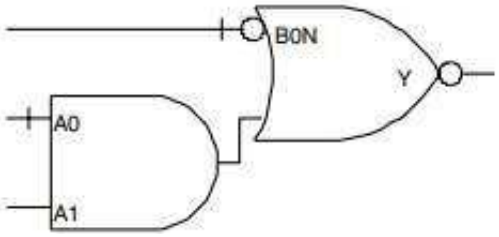
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1H7R	(A0 * A1 * !Y)	0.00090	0.00107	0.00164
	(A0 * A1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !Y)	0.00020	0.00036	0.00093

AOI21BX1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX1P4H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX1P4H7R	0.00063	0.00071	0.00088	0.02658

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX1P4H7R	0.00000	0.28289	0.42069

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX1P4H7R	A0->Y (FR)	0.03567	0.19858	0.68382
	A1->Y (FR)	0.03385	0.19505	0.68015
	B0N->Y (RR)	0.04200	0.17354	0.49885

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX1P4H7R	A0->Y (RF)	0.02816	0.15813	0.56548
	A1->Y (RF)	0.02716	0.15682	0.57560
	B0N->Y (FF)	0.02637	0.08845	0.23442

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX1P4H7R	A0	0.00100	0.00106	0.00123
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00008	0.00009	0.00008
	A0	0.00022	0.00025	0.00041
	A1	0.00092	0.00097	0.00116
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00004	0.00005	0.00005
	A1	0.00022	0.00026	0.00045
	B0N	0.00068	0.00088	0.00149
	B0N	-0.00000	0.00000	0.00001
	B0N	0.00001	0.00006	0.00006
	B0N	0.00112	0.00131	0.00192

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX1P4H7R	A0	-0.00008	-0.00005	0.00012
	A0	0.00011	0.00011	0.00011
	A0	-0.00008	-0.00009	-0.00008
	A0	0.00068	0.00074	0.00091
	A1	-0.00008	-0.00003	0.00022
	A1	0.00011	0.00011	0.00011
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00055	0.00064	0.00090
	B0N	0.00115	0.00135	0.00199
	B0N	-0.00000	0.00000	0.00000
	B0N	-0.00006	-0.00006	-0.00001
	B0N	0.00071	0.00091	0.00159

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7R	(A1 * !B0N * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B0N * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00020	0.00020	0.00021
	(!A1 * B0N * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	0.00018	0.00018	0.00019
	(!A1 * !B0N * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7R	(A1 * !B0N * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0N * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * B0N * Y)	0.00015	0.00015	0.00015
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0N * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	-0.00018	-0.00017	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7R	(A0 * !B0N * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00021	0.00021	0.00022
	(!A0 * B0N * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00002	0.00002	0.00002
	(!A0 * B0N * Y)	0.00007	0.00007	0.00008
	(!A0 * !B0N * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0N * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7R	(A0 * !B0N * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * B0N * Y)	0.00020	0.00020	0.00020
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0N * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7R	(A0 * A1 * !Y)	-0.00012	0.00005	0.00064
	(A0 * A1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !Y)	0.00064	0.00081	0.00141

Passive power(pJ) for B0N falling (conditional):

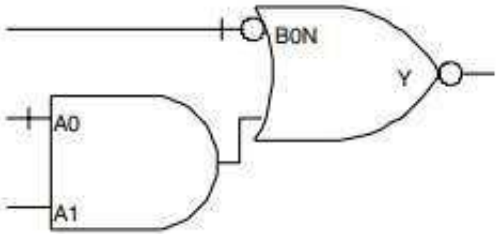
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX1P4H7R	(A0 * A1 * !Y)	0.00097	0.00116	0.00180
	(A0 * A1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !Y)	0.00021	0.00040	0.00104

AOI21BX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX2H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX2H7R	0.00062	0.00073	0.00104	0.02797

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX2H7R	0.00000	0.32802	0.47198

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX2H7R	A0->Y (FR)	0.03551	0.20034	0.69126
	A1->Y (FR)	0.03406	0.19718	0.68842
	B0N->Y (RR)	0.04140	0.17239	0.49755

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX2H7R	A0->Y (RF)	0.02932	0.16465	0.58522
	A1->Y (RF)	0.02858	0.16375	0.59683
	B0N->Y (FF)	0.02476	0.08248	0.21776

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX2H7R	A0	0.00104	0.00111	0.00128
	A0	-0.00013	-0.00013	-0.00012
	A0	0.00009	0.00009	0.00009
	A0	0.00026	0.00029	0.00045
	A1	0.00097	0.00104	0.00122
	A1	-0.00013	-0.00013	-0.00012
	A1	0.00005	0.00005	0.00006
	A1	0.00026	0.00030	0.00048
	B0N	0.00073	0.00096	0.00167
	B0N	-0.00000	0.00000	0.00000
	B0N	0.00006	0.00006	0.00006
	B0N	0.00128	0.00151	0.00222

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX2H7R	A0	-0.00007	-0.00005	0.00011
	A0	0.00012	0.00013	0.00013
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00069	0.00076	0.00093
	A1	-0.00008	-0.00003	0.00021
	A1	0.00012	0.00013	0.00013
	A1	-0.00006	-0.00005	-0.00005
	A1	0.00061	0.00067	0.00092
	B0N	0.00128	0.00152	0.00227
	B0N	-0.00000	0.00000	0.00000
	B0N	-0.00002	-0.00002	-0.00002
	B0N	0.00074	0.00097	0.00171

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7R	(A1 * !B0N * !Y)	-0.00011	-0.00010	-0.00008
	(A1 * !B0N * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00020	0.00020	0.00021
	(!A1 * B0N * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	0.00018	0.00019	0.00019
	(!A1 * !B0N * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0N * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7R	(A1 * !B0N * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0N * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0N * Y)	0.00014	0.00014	0.00015
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * !B0N * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	-0.00018	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7R	(A0 * !B0N * !Y)	-0.00012	-0.00011	-0.00009
	(A0 * !B0N * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00021	0.00021	0.00022
	(!A0 * B0N * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00002	0.00002	0.00002
	(!A0 * B0N * Y)	0.00007	0.00008	0.00008
	(!A0 * !B0N * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0N * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7R	(A0 * !B0N * !Y)	0.00012	0.00013	0.00013
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0N * Y)	0.00020	0.00021	0.00021
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0N * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	-0.00019	-0.00019	-0.00018

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7R	(A0 * A1 * !Y)	-0.00014	0.00005	0.00076
	(A0 * A1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !Y)	0.00075	0.00095	0.00166

Passive power(pJ) for B0N falling (conditional):

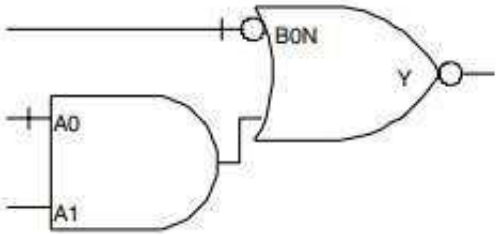
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX2H7R	(A0 * A1 * !Y)	0.00109	0.00131	0.00207
	(A0 * A1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !Y)	0.00020	0.00041	0.00117

AOI21BX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX3H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX3H7R	0.00070	0.00079	0.00164	0.03703

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX3H7R	0.00000	0.50166	0.69425

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX3H7R	A0->Y (FR)	0.03456	0.20058	0.69944
	A1->Y (FR)	0.03288	0.19738	0.69656
	B0N->Y (RR)	0.04116	0.17192	0.49556

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX3H7R	A0->Y (RF)	0.02975	0.17027	0.60310
	A1->Y (RF)	0.02870	0.16857	0.60964
	B0N->Y (FF)	0.02406	0.07790	0.20350

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX3H7R	A0	0.00152	0.00156	0.00174
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00013	0.00013	0.00013
	A0	0.00053	0.00056	0.00073
	A1	0.00139	0.00145	0.00166
	A1	-0.00018	-0.00018	-0.00018
	A1	0.00007	0.00008	0.00008
	A1	0.00052	0.00057	0.00078
	B0N	0.00108	0.00144	0.00257
	B0N	-0.00000	0.00000	0.00000
	B0N	0.00007	0.00007	0.00008
	B0N	0.00201	0.00237	0.00351

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX3H7R	A0	-0.00009	-0.00006	0.00013
	A0	0.00018	0.00018	0.00018
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00084	0.00092	0.00111
	A1	-0.00009	-0.00004	0.00025
	A1	0.00018	0.00018	0.00018
	A1	-0.00008	-0.00008	-0.00007
	A1	0.00067	0.00080	0.00110
	B0N	0.00201	0.00240	0.00362
	B0N	0.00000	0.00000	0.00001
	B0N	-0.00003	-0.00003	-0.00002
	B0N	0.00109	0.00147	0.00271

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7R	(A1 * !B0N * !Y)	-0.00013	-0.00012	-0.00010
	(A1 * !B0N * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0N * !Y)	0.00022	0.00022	0.00023
	(!A1 * B0N * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0N * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00019	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7R	(A1 * !B0N * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0N * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0N * !Y)	-0.00000	-0.00001	-0.00000
	(A1 * !B0N * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0N * Y)	0.00016	0.00017	0.00017
	(!A1 * B0N * Y)	0.00000	0.00000	0.00001
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B0N * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7R	(A0 * !B0N * !Y)	-0.00014	-0.00013	-0.00011
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00023	0.00023	0.00024
	(!A0 * B0N * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00002	0.00002	0.00003
	(!A0 * B0N * Y)	0.00007	0.00007	0.00008
	(!A0 * !B0N * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7R	(A0 * !B0N * !Y)	0.00014	0.00015	0.00015
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0N * Y)	0.00023	0.00023	0.00023
	(!A0 * B0N * Y)	0.00000	0.00000	0.00001
	(!A0 * B0N * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B0N * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	-0.00021	-0.00020	-0.00020

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7R	(A0 * A1 * !Y)	-0.00022	0.00010	0.00122
	(A0 * A1 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * !Y)	0.00118	0.00150	0.00263

Passive power(pJ) for B0N falling (conditional):

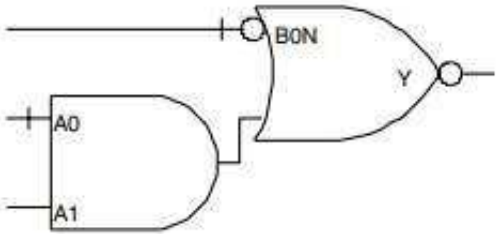
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX3H7R	(A0 * A1 * !Y)	0.00174	0.00210	0.00332
	(A0 * A1 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * A1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !Y)	0.00035	0.00070	0.00192

AOI21BX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX4H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX4H7R	0.00079	0.00090	0.00187	0.04517

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX4H7R	0.00000	0.63680	0.87218

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX4H7R	A0->Y (FR)	0.03205	0.19909	0.70304
	A1->Y (FR)	0.03026	0.19582	0.70052
	B0N->Y (RR)	0.03682	0.16670	0.49051

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX4H7R	A0->Y (RF)	0.02764	0.16832	0.60299
	A1->Y (RF)	0.02651	0.16617	0.60740
	B0N->Y (FF)	0.02126	0.07254	0.19268

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX4H7R	A0	0.00172	0.00179	0.00201
	A0	-0.00024	-0.00024	-0.00024
	A0	0.00016	0.00016	0.00016
	A0	0.00058	0.00061	0.00082
	A1	0.00158	0.00166	0.00192
	A1	-0.00024	-0.00024	-0.00023
	A1	0.00010	0.00010	0.00010
	A1	0.00058	0.00064	0.00089
	B0N	0.00119	0.00166	0.00315
	B0N	-0.00000	-0.00000	0.00000
	B0N	0.00009	0.00009	0.00009
	B0N	0.00226	0.00272	0.00419

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX4H7R	A0	-0.00010	-0.00007	0.00015
	A0	0.00024	0.00024	0.00024
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00097	0.00108	0.00131
	A1	-0.00011	-0.00005	0.00031
	A1	0.00023	0.00024	0.00024
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00075	0.00092	0.00130
	B0N	0.00226	0.00275	0.00430
	B0N	0.00000	0.00000	0.00001
	B0N	-0.00003	-0.00003	-0.00003
	B0N	0.00120	0.00169	0.00324

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7R	(A1 * !B0N * !Y)	-0.00015	-0.00014	-0.00011
	(A1 * !B0N * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0N * !Y)	0.00024	0.00025	0.00026
	(!A1 * B0N * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00001	0.00001	0.00002
	(!A1 * B0N * Y)	0.00022	0.00023	0.00023
	(!A1 * !B0N * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0N * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7R	(A1 * !B0N * !Y)	0.00015	0.00015	0.00016
	(A1 * !B0N * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0N * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0N * Y)	0.00019	0.00019	0.00020
	(!A1 * B0N * Y)	0.00000	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0N * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0N * !Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7R	(A0 * !B0N * !Y)	-0.00017	-0.00015	-0.00013
	(A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0N * !Y)	0.00025	0.00025	0.00026
	(!A0 * B0N * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0N * Y)	0.00003	0.00003	0.00004
	(!A0 * B0N * Y)	0.00006	0.00007	0.00007
	(!A0 * !B0N * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0N * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7R	(A0 * !B0N * !Y)	0.00017	0.00017	0.00017
	(A0 * !B0N * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0N * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * B0N * Y)	0.00026	0.00026	0.00027
	(!A0 * B0N * Y)	0.00000	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * B0N * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !B0N * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0N * !Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7R	(A0 * A1 * !Y)	-0.00027	0.00014	0.00159
	(A0 * A1 * !Y)	0.00015	0.00015	0.00015
	(A0 * A1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !Y)	0.00135	0.00177	0.00322

Passive power(pJ) for B0N falling (conditional):

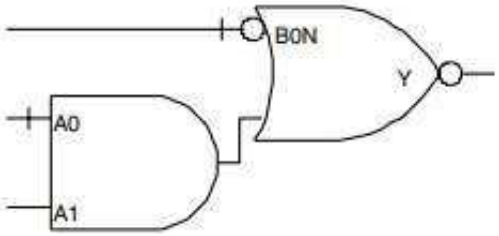
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX4H7R	(A0 * A1 * !Y)	0.00198	0.00243	0.00399
	(A0 * A1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * A1 * !Y)	0.00007	0.00007	0.00008
	(A0 * A1 * !Y)	0.00035	0.00081	0.00236

AOI21BX6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21B cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
x	x	0	0
0	x	1	1
1	0	1	1
1	1	1	0

Footprint

Cell Name	Area
AOI21BX6H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
AOI21BX6H7R	0.00089	0.00097	0.00274	0.05658

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21BX6H7R	0.00000	0.93604	1.23649

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX6H7R	A0->Y (FR)	0.03139	0.20055	0.71189
	A1->Y (FR)	0.02945	0.19727	0.70923
	B0N->Y (RR)	0.03690	0.16689	0.49117

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21BX6H7R	A0->Y (RF)	0.02904	0.17663	0.62829
	A1->Y (RF)	0.02759	0.17433	0.63330
	B0N->Y (FF)	0.01984	0.06676	0.17631

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX6H7R	A0	0.00216	0.00228	0.00253
	A0	-0.00034	-0.00034	-0.00034
	A0	0.00021	0.00021	0.00022
	A0	0.00082	0.00086	0.00110
	A1	0.00206	0.00212	0.00242
	A1	-0.00034	-0.00034	-0.00034
	A1	0.00014	0.00014	0.00015
	A1	0.00083	0.00089	0.00117
	B0N	0.00158	0.00229	0.00453
	B0N	-0.00000	0.00000	0.00001
	B0N	0.00011	0.00011	0.00011
	B0N	0.00323	0.00394	0.00615

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21BX6H7R	A0	-0.00012	-0.00008	0.00016
	A0	0.00034	0.00034	0.00034
	A0	-0.00022	-0.00021	-0.00021
	A0	0.00122	0.00131	0.00156
	A1	-0.00012	-0.00005	0.00036
	A1	0.00034	0.00034	0.00034
	A1	-0.00015	-0.00014	-0.00013
	A1	0.00099	0.00112	0.00156
	B0N	0.00325	0.00400	0.00634
	B0N	0.00000	0.00000	0.00002
	B0N	-0.00004	-0.00004	-0.00003
	B0N	0.00161	0.00235	0.00470

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7R	(A1 * !B0N * !Y)	-0.00018	-0.00016	-0.00013
	(A1 * !B0N * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	0.00027	0.00027	0.00028
	(!A1 * B0N * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0N * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0N * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0N * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7R	(A1 * !B0N * !Y)	0.00018	0.00018	0.00019
	(A1 * !B0N * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0N * Y)	0.00022	0.00022	0.00023
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0N * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0N * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0N * !Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7R	(A0 * !B0N * !Y)	-0.00020	-0.00017	-0.00015
	(A0 * !B0N * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	0.00026	0.00027	0.00028
	(!A0 * B0N * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	0.00003	0.00004	0.00004
	(!A0 * B0N * Y)	0.00007	0.00007	0.00008
	(!A0 * !B0N * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B0N * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0N * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0N * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7R	(A0 * !B0N * !Y)	0.00019	0.00020	0.00020
	(A0 * !B0N * !Y)	0.00002	0.00002	0.00003
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0N * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0N * Y)	0.00029	0.00029	0.00029
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * B0N * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0N * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0N * !Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7R	(A0 * A1 * !Y)	-0.00040	0.00023	0.00243
	(A0 * A1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * A1 * !Y)	0.00197	0.00260	0.00480

Passive power(pJ) for B0N falling (conditional):

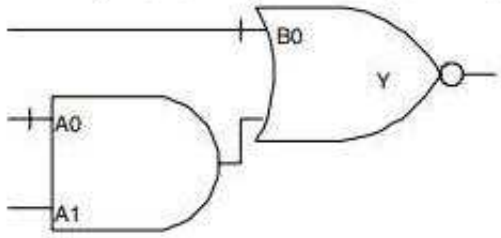
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21BX6H7R	(A0 * A1 * !Y)	0.00283	0.00352	0.00589
	(A0 * A1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * !Y)	0.00046	0.00116	0.00352

AOI21X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X0P5H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X0P5H7R	0.00064	0.00071	0.00076	0.02156

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X0P5H7R	0.00000	0.10860	0.28336

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X0P5H7R	A0->Y (FR)	0.03734	0.19040	0.64404
	A1->Y (FR)	0.03471	0.18600	0.63989
	B0->Y (FR)	0.03176	0.18649	0.65750

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X0P5H7R	A0->Y (RF)	0.02584	0.13707	0.49413
	A1->Y (RF)	0.02443	0.13525	0.50669
	B0->Y (RF)	0.01329	0.08863	0.38131

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X0P5H7R	A0	0.00093	0.00097	0.00113
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00007	0.00007	0.00007
	A0	-0.00003	-0.00001	0.00015
	A1	0.00083	0.00087	0.00106
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00003	0.00004	0.00004
	A1	-0.00001	0.00003	0.00022
	B0	0.00065	0.00071	0.00105
	B0	-0.00002	-0.00002	0.00000
	B0	0.00007	0.00007	0.00007
	B0	-0.00008	-0.00001	0.00039

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X0P5H7R	A0	-0.00008	-0.00005	0.00012
	A0	0.00008	0.00008	0.00008
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00081	0.00089	0.00107
	A1	-0.00008	-0.00003	0.00023
	A1	0.00008	0.00008	0.00008
	A1	-0.00004	-0.00003	-0.00003
	A1	0.00069	0.00076	0.00103
	B0	-0.00010	-0.00003	0.00035
	B0	0.00002	0.00002	0.00003
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00062	0.00070	0.00105

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7R	(A1 * B0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7R	(A1 * B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * B0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7R	(A0 * B0 * !Y)	-0.00009	-0.00008	-0.00006
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7R	(A0 * B0 * !Y)	0.00009	0.00009	0.00009
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7R	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00027	0.00028	0.00028

Passive power(pJ) for B0 falling (conditional):

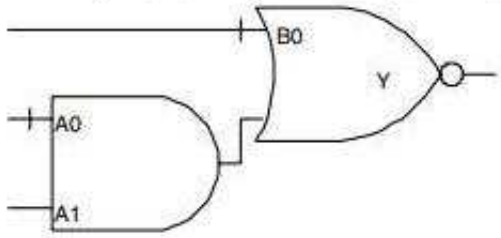
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P5H7R	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !Y)	-0.00028	-0.00028	-0.00027

AOI21X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X0P7H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X0P7H7R	0.00068	0.00075	0.00080	0.02438

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X0P7H7R	0.00000	0.12284	0.31925

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X0P7H7R	A0->Y (FR)	0.03490	0.18820	0.64457
	A1->Y (FR)	0.03215	0.18367	0.63990
	B0->Y (FR)	0.02957	0.18452	0.65784

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X0P7H7R	A0->Y (RF)	0.02401	0.13483	0.49278
	A1->Y (RF)	0.02258	0.13263	0.50402
	B0->Y (RF)	0.01241	0.08704	0.37898

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X0P7H7R	A0	0.00098	0.00103	0.00121
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00008	0.00008	0.00008
	A0	-0.00005	-0.00002	0.00016
	A1	0.00087	0.00092	0.00114
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00001	0.00004	0.00004
	A1	-0.00002	0.00003	0.00025
	B0	0.00070	0.00076	0.00115
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00008	0.00008	0.00008
	B0	-0.00009	-0.00001	0.00045

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X0P7H7R	A0	-0.00009	-0.00005	0.00014
	A0	0.00009	0.00009	0.00009
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00088	0.00096	0.00116
	A1	-0.00008	-0.00003	0.00026
	A1	0.00009	0.00009	0.00009
	A1	-0.00004	-0.00004	-0.00001
	A1	0.00076	0.00081	0.00112
	B0	-0.00011	-0.00003	0.00040
	B0	0.00002	0.00002	0.00003
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00065	0.00075	0.00115

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7R	(A1 * B0 * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !Y)	0.00021	0.00022	0.00023
	(!A1 * B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7R	(A1 * B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7R	(A0 * B0 * !Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7R	(A0 * B0 * !Y)	0.00010	0.00010	0.00010
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7R	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00029	0.00029	0.00029

Passive power(pJ) for B0 falling (conditional):

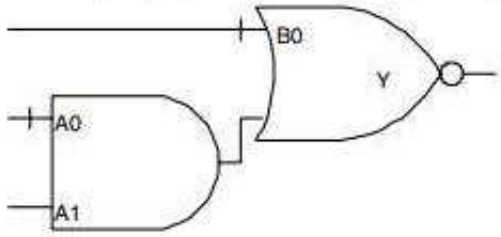
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X0P7H7R	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !Y)	-0.00029	-0.00029	-0.00028

AOI21X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X1H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X1H7R	0.00074	0.00082	0.00088	0.02895

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X1H7R	0.00000	0.14322	0.36842

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X1H7R	A0->Y (FR)	0.03207	0.18569	0.64558
	A1->Y (FR)	0.02928	0.18106	0.64022
	B0->Y (FR)	0.02730	0.18247	0.65853

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X1H7R	A0->Y (RF)	0.02242	0.13436	0.49866
	A1->Y (RF)	0.02098	0.13190	0.50796
	B0->Y (RF)	0.01176	0.08682	0.38195

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X1H7R	A0	0.00110	0.00114	0.00136
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00010	0.00010	0.00010
	A0	-0.00006	-0.00003	0.00018
	A1	0.00096	0.00102	0.00129
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00005	0.00005	0.00005
	A1	-0.00004	0.00002	0.00028
	B0	0.00078	0.00085	0.00131
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00010	0.00010	0.00010
	B0	-0.00010	-0.00000	0.00053

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X1H7R	A0	-0.00010	-0.00006	0.00016
	A0	0.00011	0.00011	0.00011
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00099	0.00108	0.00130
	A1	-0.00010	-0.00004	0.00031
	A1	0.00011	0.00011	0.00011
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00082	0.00092	0.00127
	B0	-0.00012	-0.00003	0.00049
	B0	0.00003	0.00003	0.00004
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00070	0.00084	0.00132

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7R	(A1 * B0 * !Y)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00022	0.00023	0.00024
	(!A1 * B0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7R	(A1 * B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00000	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !Y)	0.00017	0.00018	0.00018
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7R	(A0 * B0 * !Y)	-0.00012	-0.00011	-0.00008
	(A0 * B0 * !Y)	-0.00001	-0.00002	-0.00001
	(A0 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * B0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7R	(A0 * B0 * !Y)	0.00012	0.00013	0.00013
	(A0 * B0 * !Y)	0.00001	0.00002	0.00001
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * !Y)	0.00015	0.00016	0.00016
	(!A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !B0 * Y)	0.00022	0.00023	0.00023
	(!A0 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7R	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !Y)	0.00031	0.00031	0.00031

Passive power(pJ) for B0 falling (conditional):

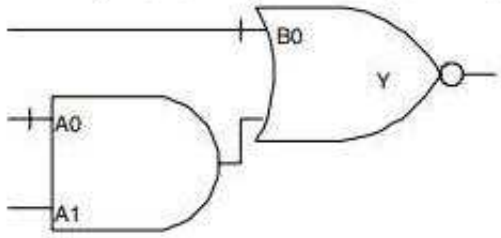
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1H7R	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !Y)	-0.00031	-0.00031	-0.00031

AOI21X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X1P4H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X1P4H7R	0.00080	0.00089	0.00094	0.03297

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X1P4H7R	0.00000	0.16280	0.41717

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X1P4H7R	A0->Y (FR)	0.03039	0.18419	0.64506
	A1->Y (FR)	0.02751	0.17942	0.64099
	B0->Y (FR)	0.02592	0.18131	0.65861

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X1P4H7R	A0->Y (RF)	0.02117	0.13242	0.49696
	A1->Y (RF)	0.01967	0.12970	0.50449
	B0->Y (RF)	0.01124	0.08562	0.37985

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X1P4H7R	A0	0.00121	0.00126	0.00151
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00011	0.00012	0.00011
	A0	-0.00007	-0.00003	0.00022
	A1	0.00105	0.00111	0.00143
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00005	0.00006	0.00006
	A1	-0.00006	0.00001	0.00032
	B0	0.00086	0.00095	0.00147
	B0	-0.00003	-0.00003	0.00000
	B0	0.00011	0.00011	0.00011
	B0	-0.00011	0.00000	0.00061

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X1P4H7R	A0	-0.00011	-0.00007	0.00018
	A0	0.00013	0.00013	0.00013
	A0	-0.00011	-0.00012	-0.00011
	A0	0.00108	0.00118	0.00144
	A1	-0.00011	-0.00004	0.00036
	A1	0.00013	0.00013	0.00013
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00091	0.00101	0.00142
	B0	-0.00013	-0.00003	0.00056
	B0	0.00000	0.00003	0.00004
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00082	0.00093	0.00148

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7R	(A1 * B0 * !Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00023	0.00024	0.00025
	(!A1 * B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * !Y)	-0.00000	-0.00001	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * Y)	-0.00000	-0.00001	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7R	(A1 * B0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7R	(A0 * B0 * !Y)	-0.00014	-0.00012	-0.00010
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !Y)	0.00024	0.00025	0.00025
	(!A0 * B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7R	(A0 * B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7R	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !Y)	0.00033	0.00034	0.00034

Passive power(pJ) for B0 falling (conditional):

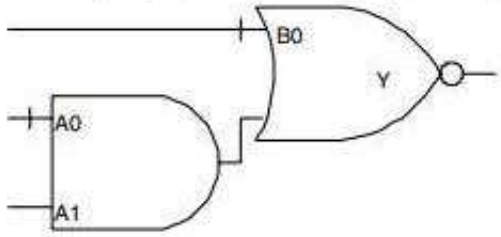
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X1P4H7R	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !Y)	-0.00034	-0.00034	-0.00033

AOI21X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X2H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X2H7R	0.00090	0.00098	0.00101	0.03882

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X2H7R	0.00000	0.19285	0.49401

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X2H7R	A0->Y (FR)	0.02827	0.18270	0.64692
	A1->Y (FR)	0.02519	0.17758	0.64210
	B0->Y (FR)	0.02373	0.17976	0.66094

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X2H7R	A0->Y (RF)	0.01931	0.12858	0.49005
	A1->Y (RF)	0.01768	0.12552	0.49613
	B0->Y (RF)	0.01030	0.08298	0.37457

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X2H7R	A0	0.00132	0.00139	0.00169
	A0	-0.00016	-0.00016	-0.00015
	A0	0.00014	0.00014	0.00014
	A0	-0.00011	-0.00007	0.00023
	A1	0.00115	0.00122	0.00161
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00006	0.00007	0.00007
	A1	-0.00009	-0.00001	0.00037
	B0	0.00093	0.00104	0.00167
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00014	0.00014	0.00014
	B0	-0.00013	0.00000	0.00074

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X2H7R	A0	-0.00013	-0.00008	0.00022
	A0	0.00015	0.00016	0.00016
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00125	0.00134	0.00165
	A1	-0.00013	-0.00005	0.00043
	A1	0.00016	0.00016	0.00016
	A1	-0.00007	-0.00007	-0.00006
	A1	0.00099	0.00112	0.00162
	B0	-0.00015	-0.00003	0.00069
	B0	0.00003	0.00004	0.00005
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00088	0.00103	0.00169

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7R	(A1 * B0 * !Y)	-0.00018	-0.00015	-0.00012
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00026	0.00027	0.00028
	(!A1 * B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7R	(A1 * B0 * !Y)	0.00018	0.00018	0.00018
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7R	(A0 * B0 * !Y)	-0.00016	-0.00014	-0.00011
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !Y)	0.00025	0.00026	0.00026
	(!A0 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7R	(A0 * B0 * !Y)	0.00016	0.00016	0.00016
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !Y)	-0.00023	-0.00023	-0.00021
	(!A0 * !B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7R	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !Y)	0.00034	0.00035	0.00035

Passive power(pJ) for B0 falling (conditional):

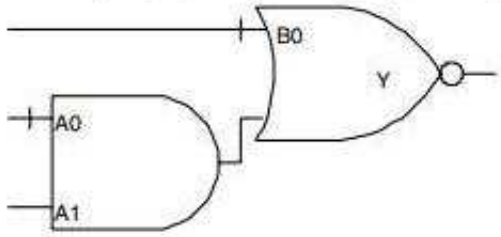
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X2H7R	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !Y)	-0.00035	-0.00034	-0.00034

AOI21X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X3H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X3H7R	0.00149	0.00157	0.00164	0.06031

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X3H7R	0.00000	0.30233	0.77859

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X3H7R	A0->Y (FR)	0.02975	0.18400	0.64685
	A1->Y (FR)	0.02484	0.17708	0.64130
	B0->Y (FR)	0.02411	0.18036	0.65950

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X3H7R	A0->Y (RF)	0.02033	0.13119	0.49576
	A1->Y (RF)	0.01738	0.12673	0.50243
	B0->Y (RF)	0.01008	0.08302	0.37778

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X3H7R	A0	0.00240	0.00250	0.00297
	A0	-0.00024	-0.00024	-0.00024
	A0	0.00021	0.00021	0.00021
	A0	-0.00004	0.00004	0.00050
	A1	0.00197	0.00209	0.00273
	A1	-0.00024	-0.00024	-0.00023
	A1	0.00007	0.00010	0.00011
	A1	-0.00009	0.00003	0.00066
	B0	0.00170	0.00186	0.00286
	B0	-0.00006	-0.00006	-0.00004
	B0	0.00021	0.00021	0.00021
	B0	-0.00026	-0.00005	0.00117

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X3H7R	A0	-0.00021	-0.00013	0.00032
	A0	0.00024	0.00024	0.00024
	A0	-0.00021	-0.00021	-0.00021
	A0	0.00218	0.00229	0.00275
	A1	-0.00021	-0.00008	0.00070
	A1	0.00023	0.00024	0.00024
	A1	-0.00010	-0.00010	-0.00007
	A1	0.00169	0.00188	0.00269
	B0	-0.00021	-0.00001	0.00116
	B0	0.00005	0.00006	0.00008
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00158	0.00185	0.00291

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7R	(A1 * B0 * !Y)	-0.00026	-0.00023	-0.00018
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00050	0.00051	0.00052
	(!A1 * B0 * !Y)	-0.00033	-0.00032	-0.00032
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * !Y)	0.00044	0.00045	0.00045
	(!A1 * !B0 * Y)	-0.00033	-0.00033	-0.00033
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00046	0.00046	0.00046

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7R	(A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00051	-0.00050	-0.00050
	(!A1 * B0 * !Y)	0.00032	0.00033	0.00033
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00045	-0.00043	-0.00041
	(!A1 * !B0 * Y)	0.00033	0.00034	0.00037
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00045	-0.00042	-0.00038

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7R	(A0 * B0 * !Y)	-0.00026	-0.00023	-0.00018
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	0.00049	0.00050	0.00051
	(!A0 * B0 * !Y)	-0.00033	-0.00033	-0.00033
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * B0 * !Y)	0.00043	0.00044	0.00044
	(!A0 * !B0 * Y)	-0.00048	-0.00047	-0.00047
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7R	(A0 * B0 * !Y)	0.00026	0.00026	0.00027
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	-0.00049	-0.00049	-0.00048
	(!A0 * B0 * !Y)	0.00033	0.00033	0.00034
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B0 * !Y)	-0.00044	-0.00042	-0.00039
	(!A0 * !B0 * Y)	0.00048	0.00048	0.00048
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7R	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !Y)	0.00063	0.00064	0.00064

Passive power(pJ) for B0 falling (conditional):

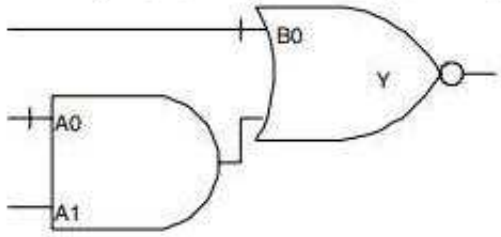
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X3H7R	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !Y)	-0.00064	-0.00063	-0.00063

AOI21X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X4H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X4H7R	0.00175	0.00183	0.00191	0.07707

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X4H7R	0.00000	0.38569	0.98802

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X4H7R	A0->Y (FR)	0.02700	0.18166	0.64781
	A1->Y (FR)	0.02235	0.17502	0.64245
	B0->Y (FR)	0.02178	0.17834	0.66090

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X4H7R	A0->Y (RF)	0.01831	0.12755	0.49020
	A1->Y (RF)	0.01557	0.12323	0.49694
	B0->Y (RF)	0.00919	0.08089	0.37248

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X4H7R	A0	0.00282	0.00294	0.00355
	A0	-0.00032	-0.00031	-0.00031
	A0	0.00027	0.00028	0.00028
	A0	-0.00014	-0.00003	0.00057
	A1	0.00229	0.00244	0.00330
	A1	-0.00032	-0.00031	-0.00030
	A1	0.00012	0.00014	0.00014
	A1	-0.00019	-0.00003	0.00080
	B0	0.00198	0.00219	0.00349
	B0	-0.00008	-0.00008	-0.00007
	B0	0.00027	0.00027	0.00028
	B0	-0.00033	-0.00006	0.00152

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X4H7R	A0	-0.00026	-0.00016	0.00042
	A0	0.00031	0.00031	0.00032
	A0	-0.00028	-0.00028	-0.00027
	A0	0.00257	0.00275	0.00336
	A1	-0.00026	-0.00010	0.00091
	A1	0.00030	0.00031	0.00032
	A1	-0.00014	-0.00014	-0.00012
	A1	0.00198	0.00226	0.00330
	B0	-0.00027	-0.00002	0.00150
	B0	0.00007	0.00008	0.00011
	B0	-0.00014	-0.00014	-0.00013
	B0	0.00192	0.00219	0.00356

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7R	(A1 * B0 * !Y)	-0.00033	-0.00029	-0.00023
	(A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00056	0.00057	0.00058
	(!A1 * B0 * !Y)	-0.00041	-0.00041	-0.00040
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !Y)	0.00050	0.00050	0.00050
	(!A1 * !B0 * Y)	-0.00041	-0.00041	-0.00041
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * Y)	0.00052	0.00052	0.00052

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7R	(A1 * B0 * !Y)	0.00033	0.00033	0.00033
	(A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00056	-0.00056	-0.00056
	(!A1 * B0 * !Y)	0.00041	0.00041	0.00041
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !Y)	-0.00050	-0.00049	-0.00046
	(!A1 * !B0 * Y)	0.00041	0.00043	0.00045
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00050	-0.00047	-0.00043

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7R	(A0 * B0 * !Y)	-0.00033	-0.00029	-0.00023
	(A0 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	0.00055	0.00056	0.00057
	(!A0 * B0 * !Y)	-0.00042	-0.00042	-0.00041
	(!A0 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * !Y)	0.00049	0.00049	0.00049
	(!A0 * !B0 * Y)	-0.00057	-0.00057	-0.00057
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * Y)	0.00013	0.00014	0.00014

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7R	(A0 * B0 * !Y)	0.00033	0.00034	0.00034
	(A0 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	-0.00055	-0.00055	-0.00054
	(!A0 * B0 * !Y)	0.00041	0.00042	0.00042
	(!A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !Y)	-0.00049	-0.00047	-0.00044
	(!A0 * !B0 * Y)	0.00057	0.00057	0.00058
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * Y)	-0.00013	-0.00013	-0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7R	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !Y)	0.00072	0.00072	0.00072

Passive power(pJ) for B0 falling (conditional):

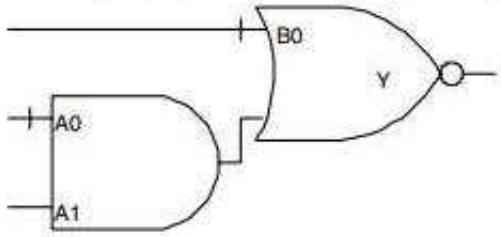
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X4H7R	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !Y)	-0.00072	-0.00072	-0.00071

AOI21X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X6H7R	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X6H7R	0.00257	0.00273	0.00282	0.11561

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X6H7R	0.00000	0.57854	1.48203

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X6H7R	A0->Y (FR)	0.02535	0.17984	0.64667
	A1->Y (FR)	0.02124	0.17394	0.64212
	B0->Y (FR)	0.02027	0.17674	0.66083

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X6H7R	A0->Y (RF)	0.01728	0.12669	0.49048
	A1->Y (RF)	0.01508	0.12332	0.50049
	B0->Y (RF)	0.00870	0.08015	0.37249

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X6H7R	A0	0.00410	0.00426	0.00523
	A0	-0.00047	-0.00047	-0.00046
	A0	0.00041	0.00041	0.00041
	A0	-0.00031	-0.00015	0.00079
	A1	0.00339	0.00362	0.00496
	A1	-0.00048	-0.00047	-0.00047
	A1	0.00020	0.00021	0.00021
	A1	-0.00034	-0.00010	0.00121
	B0	0.00288	0.00319	0.00522
	B0	-0.00012	-0.00012	-0.00010
	B0	0.00041	0.00041	0.00041
	B0	-0.00048	-0.00007	0.00235

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X6H7R	A0	-0.00040	-0.00024	0.00070
	A0	0.00046	0.00047	0.00047
	A0	-0.00041	-0.00041	-0.00041
	A0	0.00377	0.00409	0.00505
	A1	-0.00040	-0.00015	0.00139
	A1	0.00047	0.00047	0.00048
	A1	-0.00021	-0.00020	-0.00020
	A1	0.00301	0.00341	0.00499
	B0	-0.00048	-0.00004	0.00230
	B0	0.00011	0.00013	0.00033
	B0	-0.00021	-0.00020	-0.00020
	B0	0.00288	0.00325	0.00537

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7R	(A1 * B0 * !Y)	-0.00049	-0.00044	-0.00035
	(A1 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	0.00082	0.00084	0.00086
	(!A1 * B0 * !Y)	-0.00061	-0.00061	-0.00061
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !Y)	0.00002	0.00005	0.00005
	(!A1 * B0 * !Y)	0.00073	0.00074	0.00076
	(!A1 * !B0 * Y)	-0.00062	-0.00061	-0.00061
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * Y)	0.00076	0.00077	0.00077

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7R	(A1 * B0 * !Y)	0.00049	0.00050	0.00050
	(A1 * B0 * !Y)	0.00006	0.00006	0.00006
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	-0.00083	-0.00082	-0.00081
	(!A1 * B0 * !Y)	0.00061	0.00061	0.00061
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	-0.00005	-0.00005	-0.00002
	(!A1 * B0 * !Y)	-0.00073	-0.00071	-0.00067
	(!A1 * !B0 * Y)	0.00062	0.00064	0.00068
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00073	-0.00069	-0.00063

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7R	(A0 * B0 * !Y)	-0.00050	-0.00044	-0.00035
	(A0 * B0 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	0.00084	0.00085	0.00087
	(!A0 * B0 * !Y)	-0.00062	-0.00061	-0.00061
	(!A0 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * B0 * !Y)	0.00074	0.00075	0.00076
	(!A0 * !B0 * Y)	-0.00086	-0.00086	-0.00086
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !B0 * Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7R	(A0 * B0 * !Y)	0.00050	0.00050	0.00050
	(A0 * B0 * !Y)	0.00006	0.00006	0.00007
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !Y)	-0.00084	-0.00084	-0.00083
	(!A0 * B0 * !Y)	0.00061	0.00062	0.00062
	(!A0 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * !Y)	-0.00076	-0.00073	-0.00068
	(!A0 * !B0 * Y)	0.00086	0.00086	0.00087
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !B0 * Y)	-0.00019	-0.00019	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7R	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !Y)	0.00106	0.00107	0.00107

Passive power(pJ) for B0 falling (conditional):

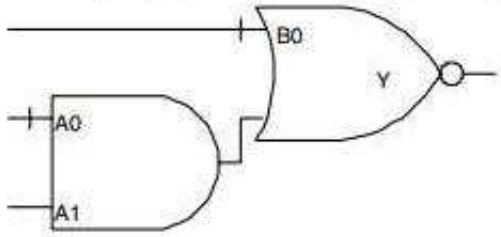
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X6H7R	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !Y)	-0.00107	-0.00106	-0.00105

AOI21X8H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI21 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	x	0	1
x	x	1	0
1	0	0	1
1	1	x	0

Footprint

Cell Name	Area
AOI21X8H7R	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
AOI21X8H7R	0.00342	0.00360	0.00371	0.15396

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI21X8H7R	0.00000	0.77139	1.97603

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X8H7R	A0->Y (FR)	0.02477	0.17930	0.64656
	A1->Y (FR)	0.02039	0.17298	0.64156
	B0->Y (FR)	0.01945	0.17602	0.66068

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI21X8H7R	A0->Y (RF)	0.01685	0.12614	0.48992
	A1->Y (RF)	0.01444	0.12240	0.49919
	B0->Y (RF)	0.00681	0.07951	0.37219

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X8H7R	A0	0.00542	0.00566	0.00696
	A0	-0.00063	-0.00063	-0.00062
	A0	0.00055	0.00055	0.00055
	A0	-0.00043	-0.00022	0.00105
	A1	0.00444	0.00475	0.00658
	A1	-0.00063	-0.00063	-0.00062
	A1	0.00027	0.00028	0.00029
	A1	-0.00052	-0.00020	0.00160
	B0	0.00377	0.00420	0.00695
	B0	-0.00017	-0.00016	-0.00013
	B0	0.00055	0.00055	0.00056
	B0	-0.00073	-0.00017	0.00314

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI21X8H7R	A0	-0.00053	-0.00032	0.00093
	A0	0.00062	0.00063	0.00063
	A0	-0.00055	-0.00055	-0.00055
	A0	0.00508	0.00545	0.00673
	A1	-0.00054	-0.00019	0.00188
	A1	0.00062	0.00063	0.00063
	A1	-0.00027	-0.00027	-0.00026
	A1	0.00396	0.00452	0.00666
	B0	-0.00058	-0.00004	0.00314
	B0	0.00015	0.00016	0.00021
	B0	-0.00027	-0.00027	-0.00027
	B0	0.00361	0.00430	0.00716

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7R	(A1 * B0 * !Y)	-0.00066	-0.00058	-0.00046
	(A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008
	(A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(A1 * B0 * !Y)	0.00109	0.00111	0.00113
	(!A1 * B0 * !Y)	-0.00083	-0.00082	-0.00082
	(!A1 * B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * !Y)	0.00007	0.00007	0.00007
	(!A1 * B0 * !Y)	0.00097	0.00097	0.00097
	(!A1 * !B0 * Y)	-0.00083	-0.00082	-0.00082
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * Y)	0.00101	0.00101	0.00101

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7R	(A1 * B0 * !Y)	0.00066	0.00067	0.00067
	(A1 * B0 * !Y)	0.00008	0.00009	0.00009
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	-0.00109	-0.00109	-0.00108
	(!A1 * B0 * !Y)	0.00082	0.00082	0.00083
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * !Y)	-0.00007	-0.00006	-0.00006
	(!A1 * B0 * !Y)	-0.00097	-0.00094	-0.00088
	(!A1 * !B0 * Y)	0.00084	0.00086	0.00092
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * Y)	-0.00097	-0.00091	-0.00083

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7R	(A0 * B0 * !Y)	-0.00067	-0.00059	-0.00046
	(A0 * B0 * !Y)	-0.00009	-0.00009	-0.00008
	(A0 * B0 * !Y)	0.00002	0.00002	0.00003
	(A0 * B0 * !Y)	0.00110	0.00112	0.00115
	(!A0 * B0 * !Y)	-0.00083	-0.00083	-0.00081
	(!A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * B0 * !Y)	0.00098	0.00099	0.00100
	(!A0 * !B0 * Y)	-0.00116	-0.00115	-0.00115
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	0.00012	0.00012	0.00013
	(!A0 * !B0 * Y)	0.00026	0.00026	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7R	(A0 * B0 * !Y)	0.00067	0.00067	0.00068
	(A0 * B0 * !Y)	0.00008	0.00009	0.00009
	(A0 * B0 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * !Y)	-0.00110	-0.00110	-0.00109
	(!A0 * B0 * !Y)	0.00082	0.00083	0.00084
	(!A0 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * B0 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * B0 * !Y)	-0.00099	-0.00095	-0.00089
	(!A0 * !B0 * Y)	0.00115	0.00116	0.00116
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * Y)	-0.00026	-0.00026	-0.00025

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7R	(A0 * A1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * A1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !Y)	0.00140	0.00140	0.00140

Passive power(pJ) for B0 falling (conditional):

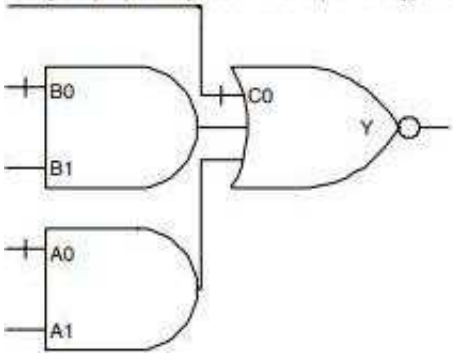
Cell Name	When	Power(pJ)		
		min	avg	max
AOI21X8H7R	(A0 * A1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !Y)	0.00014	0.00014	0.00014
	(A0 * A1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !Y)	-0.00140	-0.00139	-0.00137

AOI221X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X0P5H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X0P5H7R	0.00065	0.00070	0.00063	0.00073	0.00075	0.01399

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X0P5H7R	0.00000	0.11274	0.42655

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X0P5H7R	A0->Y (FR)	0.07725	0.22244	0.62625
	A1->Y (FR)	0.07327	0.21735	0.62141
	B0->Y (FR)	0.07047	0.22086	0.65466
	B1->Y (FR)	0.06696	0.21572	0.64983
	C0->Y (FR)	0.05712	0.20784	0.64851

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X0P5H7R	A0->Y (RF)	0.03317	0.12134	0.39980
	A1->Y (RF)	0.03198	0.11977	0.40600
	B0->Y (RF)	0.03044	0.11539	0.39264
	B1->Y (RF)	0.02947	0.11371	0.39877
	C0->Y (RF)	0.01535	0.07468	0.30103

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X0P5H7R	A0	0.00159	0.00161	0.00167
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00013	0.00013	0.00013
	A0	0.00010	0.00012	0.00019
	A1	0.00149	0.00152	0.00158
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00009	0.00009	0.00009
	A1	0.00009	0.00012	0.00020
	B0	0.00125	0.00127	0.00137
	B0	-0.00008	-0.00008	-0.00007
	B0	0.00013	0.00013	0.00013
	B0	0.00008	0.00011	0.00023
	B1	0.00115	0.00118	0.00128
	B1	-0.00009	-0.00008	-0.00007
	B1	0.00009	0.00009	0.00009
	B1	0.00008	0.00012	0.00025
	C0	0.00095	0.00100	0.00124
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00013	0.00013	0.00013
	C0	-0.00003	0.00004	0.00037

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X0P5H7R	A0	-0.00008	-0.00005	0.00007
	A0	0.00015	0.00016	0.00016
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00132	0.00136	0.00147
	A1	-0.00008	-0.00004	0.00015
	A1	0.00015	0.00016	0.00016
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00121	0.00127	0.00146
	B0	-0.00006	-0.00003	0.00010
	B0	0.00008	0.00008	0.00009
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00108	0.00112	0.00124
	B1	-0.00005	-0.00001	0.00020
	B1	0.00007	0.00008	0.00009
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00097	0.00102	0.00122
	C0	-0.00008	-0.00002	0.00030
	C0	0.00002	0.00002	0.00003
	C0	-0.00006	-0.00006	-0.00005
	C0	0.00090	0.00095	0.00123

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7R	**(A1 * B0 * B1 * C0 * !Y)**	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00018	0.00018	0.00018
	(A1 * B0 * B1 * !C0 * !Y)	-0.00010	-0.00009	-0.00006
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00019
	(A1 * !B1 * C0 * !Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * !Y)	0.00018	0.00018	0.00019
	(A1 * !B0 * B1 * C0 * !Y)	-0.00010	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00015	0.00015	0.00016

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7R	**(A1 * B0 * B1 * C0 * !Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * B0 * B1 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B1 * C0 * !Y)	0.00009	0.00010	0.00010
	(A1 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * B1 * C0 * !Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B1 * !C0 * Y)	0.00015	0.00015	0.00016
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00015	-0.00014	-0.00013
	(!A1 * !B0 * B1 * !C0 * Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00015	-0.00014	-0.00013

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7R	**(A0 * B0 * B1 * C0 * !Y)**	-0.00010	-0.00009	-0.00006
	(A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * B0 * B1 * !C0 * !Y)	-0.00010	-0.00009	-0.00006
	(A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B1 * C0 * !Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * B1 * C0 * !Y)	-0.00010	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * B1 * C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7R	**(A0 * B0 * B1 * C0 * !Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * B0 * B1 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * !B1 * C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * B1 * C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * B0 * B1 * C0 * !Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * B0 * B1 * !C0 * !Y)	0.00013	0.00014	0.00014
	(!A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !B1 * C0 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7R	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00018	0.00018	0.00018
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B1 * C0 * !Y)	-0.00014	-0.00012	-0.00010
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B1 * C0 * !Y)	-0.00014	-0.00012	-0.00010
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00013	0.00013	0.00013

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7R	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00017	-0.00016	-0.00016
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00017	-0.00016	-0.00016
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A1 * B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B1 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00013	-0.00012	-0.00012
	(!A0 * A1 * B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * !B1 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00013	-0.00012	-0.00012

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7R	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * !Y)	0.00018	0.00019	0.00019
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * !Y)	-0.00013	-0.00011	-0.00009
	(!A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00013	-0.00011	-0.00009
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P5H7R	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * !Y)	-0.00019	-0.00018	-0.00018
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A1 * B0 * C0 * !Y)	0.00012	0.00013	0.00013
	(!A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B0 * !C0 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * !Y)	0.00012	0.00012	0.00013
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * A1 * !B0 * !C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X0P5H7R	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00028	0.00028	0.00028

Passive power(pJ) for C0 falling (conditional):

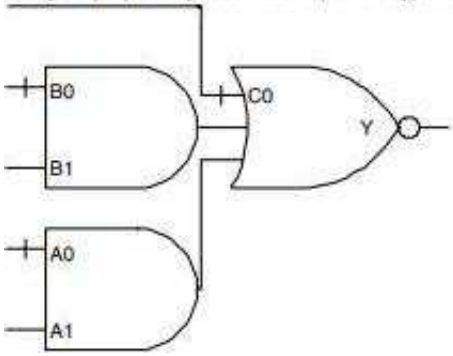
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X0P5H7R	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00028	-0.00028	-0.00027
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00028	-0.00028	-0.00028

AOI221X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X0P7H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X0P7H7R	0.00069	0.00075	0.00064	0.00079	0.00080	0.01583

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X0P7H7R	0.00000	0.12745	0.48064

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X0P7H7R	A0->Y (FR)	0.07217	0.21804	0.62541
	A1->Y (FR)	0.06817	0.21297	0.62045
	B0->Y (FR)	0.06431	0.21548	0.65323
	B1->Y (FR)	0.06151	0.21096	0.64886
	C0->Y (FR)	0.05454	0.20583	0.65023

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X0P7H7R	A0->Y (RF)	0.03077	0.11846	0.39743
	A1->Y (RF)	0.02961	0.11653	0.40281
	B0->Y (RF)	0.02745	0.11188	0.39027
	B1->Y (RF)	0.02696	0.11022	0.39520
	C0->Y (RF)	0.01450	0.07316	0.29965

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X0P7H7R	A0	0.00170	0.00172	0.00179
	A0	-0.00018	-0.00017	-0.00017
	A0	0.00015	0.00015	0.00015
	A0	0.00007	0.00010	0.00017
	A1	0.00159	0.00162	0.00169
	A1	-0.00018	-0.00017	-0.00017
	A1	0.00011	0.00011	0.00011
	A1	0.00006	0.00010	0.00019
	B0	0.00130	0.00132	0.00144
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00015	0.00015	0.00015
	B0	0.00006	0.00009	0.00023
	B1	0.00119	0.00123	0.00135
	B1	-0.00009	-0.00009	-0.00009
	B1	0.00011	0.00011	0.00011
	B1	0.00005	0.00010	0.00025
	C0	0.00103	0.00109	0.00136
	C0	-0.00003	-0.00002	-0.00001
	C0	0.00015	0.00015	0.00015
	C0	-0.00003	0.00005	0.00041

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X0P7H7R	A0	-0.00008	-0.00006	0.00007
	A0	0.00017	0.00017	0.00018
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00143	0.00147	0.00160
	A1	-0.00009	-0.00004	0.00018
	A1	0.00018	0.00018	0.00018
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00131	0.00138	0.00160
	B0	-0.00007	-0.00004	0.00012
	B0	0.00009	0.00009	0.00009
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00115	0.00119	0.00133
	B1	-0.00006	-0.00001	0.00023
	B1	0.00009	0.00009	0.00010
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00105	0.00110	0.00133
	C0	-0.00009	-0.00002	0.00034
	C0	0.00002	0.00002	0.00005
	C0	-0.00006	-0.00006	-0.00006
	C0	0.00099	0.00104	0.00135

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7R	**(A1 * B0 * B1 * C0 * !Y)**	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(A1 * B0 * B1 * !C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A1 * !B1 * C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * B1 * C0 * !Y)	-0.00011	-0.00009	-0.00006
	(A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B1 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7R	**(A1 * B0 * B1 * C0 * !Y)**	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00019	-0.00019	-0.00018
	(A1 * B0 * B1 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * B1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * B1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00016
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00017	-0.00017	-0.00016
	(!A1 * !B1 * !C0 * Y)	0.00016	0.00017	0.00017
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * B1 * !C0 * Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7R	**(A0 * B0 * B1 * C0 * !Y)**	-0.00011	-0.00010	-0.00007
	(A0 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * B0 * B1 * !C0 * !Y)	-0.00012	-0.00010	-0.00007
	(A0 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B1 * C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * !Y)	0.00021	0.00021	0.00022
	(A0 * !B0 * B1 * C0 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * B0 * B1 * C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B1 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7R	**(A0 * B0 * B1 * C0 * !Y)**	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * B0 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * B1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * B1 * C0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * C0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !B0 * B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7R	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * !Y)	0.00018	0.00018	0.00018
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * !Y)	0.00017	0.00018	0.00018
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00016	0.00016	0.00017
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * B1 * C0 * !Y)	-0.00014	-0.00013	-0.00011
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B1 * C0 * !Y)	-0.00014	-0.00013	-0.00011
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7R	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00017
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00015
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00015
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00015	-0.00014	-0.00014
	(!A1 * B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A1 * B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * !B1 * !C0 * Y)	0.00017	0.00018	0.00018
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00013	-0.00013	-0.00012

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7R	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * C0 * !Y)	-0.00013	-0.00012	-0.00010
	(!A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00013	-0.00012	-0.00010
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X0P7H7R	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * C0 * !Y)	0.00015	0.00016	0.00016
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * A1 * !B0 * C0 * !Y)	0.00015	0.00016	0.00016
	(!A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A1 * !B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X0P7H7R	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00029	0.00029	0.00029

Passive power(pJ) for C0 falling (conditional):

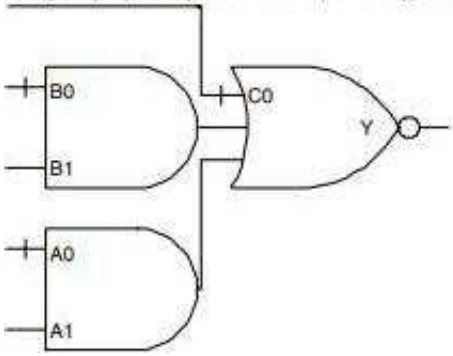
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X0P7H7R	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00029	-0.00029	-0.00029

AOI221X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X1H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X1H7R	0.00075	0.00080	0.00074	0.00083	0.00084	0.01882

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X1H7R	0.00000	0.14853	0.55478

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X1H7R	A0->Y (FR)	0.06740	0.21434	0.62604
	A1->Y (FR)	0.06309	0.20896	0.62115
	B0->Y (FR)	0.06122	0.21343	0.65605
	B1->Y (FR)	0.05716	0.20772	0.65055
	C0->Y (FR)	0.04866	0.20088	0.64928

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X1H7R	A0->Y (RF)	0.02872	0.11741	0.40129
	A1->Y (RF)	0.02731	0.11501	0.40483
	B0->Y (RF)	0.02641	0.11174	0.39460
	B1->Y (RF)	0.02512	0.10917	0.39905
	C0->Y (RF)	0.01330	0.07182	0.30065

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X1H7R	A0	0.00190	0.00193	0.00201
	A0	-0.00022	-0.00021	-0.00021
	A0	0.00016	0.00018	0.00018
	A0	0.00009	0.00011	0.00020
	A1	0.00177	0.00181	0.00190
	A1	-0.00021	-0.00021	-0.00021
	A1	0.00013	0.00013	0.00013
	A1	0.00007	0.00011	0.00022
	B0	0.00149	0.00152	0.00165
	B0	-0.00012	-0.00011	-0.00011
	B0	0.00018	0.00018	0.00018
	B0	0.00007	0.00010	0.00026
	B1	0.00135	0.00139	0.00154
	B1	-0.00011	-0.00011	-0.00011
	B1	0.00012	0.00013	0.00013
	B1	0.00007	0.00012	0.00030
	C0	0.00112	0.00119	0.00151
	C0	-0.00003	-0.00003	-0.00001
	C0	0.00017	0.00018	0.00018
	C0	-0.00004	0.00005	0.00049

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X1H7R	A0	-0.00010	-0.00007	0.00009
	A0	0.00022	0.00022	0.00022
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00159	0.00165	0.00180
	A1	-0.00010	-0.00005	0.00021
	A1	0.00022	0.00022	0.00022
	A1	-0.00008	-0.00007	-0.00007
	A1	0.00146	0.00153	0.00180
	B0	-0.00012	-0.00004	0.00014
	B0	0.00011	0.00011	0.00017
	B0	-0.00013	-0.00013	-0.00012
	B0	0.00132	0.00136	0.00152
	B1	-0.00007	-0.00002	0.00027
	B1	0.00011	0.00011	0.00011
	B1	-0.00008	-0.00007	-0.00007
	B1	0.00117	0.00123	0.00150
	C0	-0.00011	-0.00003	0.00042
	C0	0.00003	0.00003	0.00004
	C0	-0.00008	-0.00007	-0.00007
	C0	0.00106	0.00114	0.00152

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7R	**(A1 * B0 * B1 * C0 * !Y)**	-0.00013	-0.00011	-0.00008
	(A1 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00020	0.00021	0.00021
	(A1 * B0 * B1 * !C0 * !Y)	-0.00013	-0.00011	-0.00008
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(A1 * !B1 * C0 * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * B1 * C0 * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00016
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7R	**(A1 * B0 * B1 * C0 * !Y)**	0.00012	0.00013	0.00013
	(A1 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * B0 * B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B1 * C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * C0 * !Y)	-0.00021	-0.00020	-0.00020
	(A1 * !B0 * B1 * C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * B0 * B1 * !Y)	0.00016	0.00017	0.00017
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B1 * !C0 * Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00017	-0.00016	-0.00015
	(!A1 * !B0 * B1 * !C0 * Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7R	**(A0 * B0 * B1 * C0 * !Y)**	-0.00013	-0.00011	-0.00008
	(A0 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * B0 * B1 * !C0 * !Y)	-0.00013	-0.00011	-0.00008
	(A0 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !B1 * C0 * !Y)	-0.00012	-0.00010	-0.00008
	(A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * !Y)	0.00023	0.00023	0.00024
	(A0 * !B0 * B1 * C0 * !Y)	-0.00012	-0.00010	-0.00008
	(A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * B1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * C0 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * !C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7R	**(A0 * B0 * B1 * C0 * !Y)**	0.00012	0.00013	0.00013
	(A0 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * B0 * B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B1 * C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * B1 * C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B1 * C0 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B1 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B0 * B1 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7R	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B1 * C0 * !Y)	-0.00017	-0.00015	-0.00012
	(!A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * !Y)	-0.00017	-0.00015	-0.00012
	(!A0 * A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00018	0.00019	0.00020
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7R	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00019	-0.00018	-0.00018
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00018
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00019	0.00019	0.00020
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A1 * B1 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * Y)	0.00021	0.00022	0.00022
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * A1 * B1 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C0 * Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00015	-0.00014	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7R	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * C0 * !Y)	0.00022	0.00022	0.00023
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * !Y)	-0.00015	-0.00014	-0.00011
	(!A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	0.00020	0.00021	0.00022
	(!A1 * !B0 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00015	-0.00014	-0.00011
	(!A0 * A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00020	0.00021	0.00022
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1H7R	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * !Y)	-0.00021	-0.00020	-0.00019
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B0 * !C0 * Y)	0.00026	0.00027	0.00027
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * !B0 * !C0 * Y)	0.00026	0.00027	0.00027
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X1H7R	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00031	0.00031	0.00031
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !Y)	0.00031	0.00031	0.00031
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00031	0.00031	0.00031

Passive power(pJ) for C0 falling (conditional):

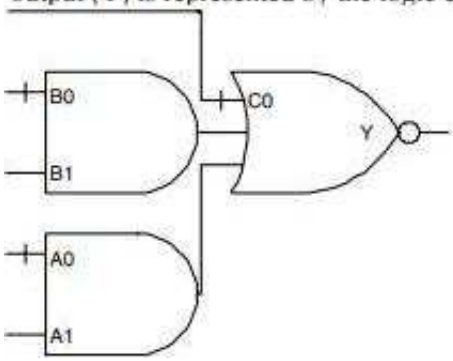
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X1H7R	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !Y)	-0.00000	-0.00001	-0.00000
	(A0 * A1 * !B1 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00031	-0.00031	-0.00030

AOI221X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X1P4H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X1P4H7R	0.00081	0.00088	0.00081	0.00092	0.00092	0.02145

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X1P4H7R	0.00000	0.16886	0.62829

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X1P4H7R	A0->Y (FR)	0.06362	0.21116	0.62600
	A1->Y (FR)	0.05920	0.20566	0.62053
	B0->Y (FR)	0.05686	0.20957	0.65421
	B1->Y (FR)	0.05293	0.20392	0.64935
	C0->Y (FR)	0.04644	0.19916	0.65021

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X1P4H7R	A0->Y (RF)	0.02715	0.11516	0.39862
	A1->Y (RF)	0.02544	0.11231	0.40154
	B0->Y (RF)	0.02432	0.10889	0.39189
	B1->Y (RF)	0.02315	0.10620	0.39572
	C0->Y (RF)	0.01266	0.07046	0.29949

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X1P4H7R	A0	0.00207	0.00210	0.00219
	A0	-0.00025	-0.00025	-0.00024
	A0	0.00020	0.00020	0.00020
	A0	0.00005	0.00008	0.00019
	A1	0.00192	0.00196	0.00207
	A1	-0.00025	-0.00025	-0.00024
	A1	0.00014	0.00015	0.00015
	A1	0.00003	0.00008	0.00022
	B0	0.00158	0.00163	0.00179
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00020	0.00020	0.00020
	B0	0.00003	0.00007	0.00026
	B1	0.00143	0.00148	0.00166
	B1	-0.00013	-0.00013	-0.00013
	B1	0.00014	0.00015	0.00015
	B1	0.00003	0.00008	0.00031
	C0	0.00123	0.00130	0.00167
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00019	0.00020	0.00020
	C0	-0.00005	0.00005	0.00056

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X1P4H7R	A0	-0.00011	-0.00008	0.00010
	A0	0.00025	0.00025	0.00026
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00179	0.00183	0.00201
	A1	-0.00011	-0.00006	0.00025
	A1	0.00025	0.00025	0.00026
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00162	0.00170	0.00200
	B0	-0.00011	-0.00006	0.00015
	B0	0.00013	0.00013	0.00015
	B0	-0.00015	-0.00015	-0.00014
	B0	0.00143	0.00149	0.00168
	B1	-0.00009	-0.00002	0.00032
	B1	0.00013	0.00013	0.00014
	B1	-0.00009	-0.00009	-0.00009
	B1	0.00126	0.00135	0.00167
	C0	-0.00012	-0.00002	0.00049
	C0	0.00003	0.00003	0.00005
	C0	-0.00009	-0.00009	-0.00008
	C0	0.00118	0.00126	0.00170

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7R	**(A1 * B0 * B1 * C0 * !Y)**	-0.00014	-0.00012	-0.00009
	(A1 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00022	0.00022	0.00023
	(A1 * B0 * B1 * !C0 * !Y)	-0.00015	-0.00012	-0.00009
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A1 * !B1 * C0 * !Y)	-0.00014	-0.00012	-0.00009
	(A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * !Y)	0.00022	0.00023	0.00023
	(A1 * !B0 * B1 * C0 * !Y)	-0.00014	-0.00012	-0.00009
	(A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * B0 * B1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7R	**(A1 * B0 * B1 * C0 * !Y)**	0.00014	0.00014	0.00014
	(A1 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * B1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * !B0 * B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * B1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00018	0.00019	0.00019
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B1 * !C0 * Y)	0.00020	0.00021	0.00021
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7R	**(A0 * B0 * B1 * C0 * !Y)**	-0.00014	-0.00013	-0.00009
	(A0 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * B0 * B1 * !C0 * !Y)	-0.00015	-0.00013	-0.00009
	(A0 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B1 * C0 * !Y)	-0.00014	-0.00012	-0.00009
	(A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * B1 * C0 * !Y)	-0.00014	-0.00012	-0.00009
	(A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * B1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !B1 * !C0 * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7R	**(A0 * B0 * B1 * C0 * !Y)**	0.00014	0.00014	0.00014
	(A0 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C0 * !Y)	-0.00025	-0.00025	-0.00024
	(A0 * !B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0 * B0 * B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B1 * !C0 * Y)	0.00026	0.00027	0.00027
	(!A0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !B0 * B1 * !C0 * Y)	0.00026	0.00027	0.00027
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7R	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B1 * C0 * !Y)	-0.00019	-0.00017	-0.00014
	(!A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * B1 * C0 * !Y)	-0.00019	-0.00017	-0.00014
	(!A0 * A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00017	0.00017	0.00018

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7R	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00018
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A1 * B1 * C0 * !Y)	0.00018	0.00018	0.00019
	(!A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B1 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B1 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * B1 * C0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B1 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7R	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * C0 * !Y)	0.00024	0.00025	0.00025
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00025
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * C0 * !Y)	-0.00017	-0.00015	-0.00012
	(!A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00017	-0.00015	-0.00012
	(!A0 * A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X1P4H7R	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * !Y)	-0.00023	-0.00022	-0.00021
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * !C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A1 * !B0 * !C0 * Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X1P4H7R	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !Y)	0.00033	0.00033	0.00033
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00033	0.00033	0.00033

Passive power(pJ) for C0 falling (conditional):

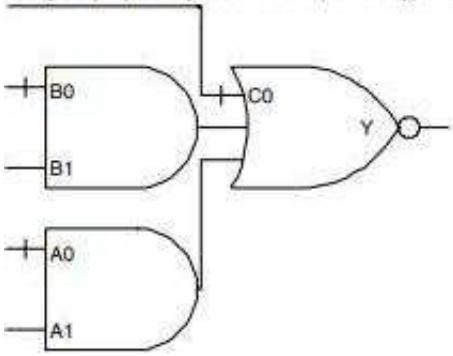
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X1P4H7R	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00033	-0.00033	-0.00033
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00033	-0.00033	-0.00032

AOI221X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X2H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X2H7R	0.00092	0.00097	0.00090	0.00100	0.00099	0.02526

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X2H7R	0.00000	0.20014	0.74414

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X2H7R	A0->Y (FR)	0.06051	0.20908	0.62753
	A1->Y (FR)	0.05568	0.20317	0.62235
	B0->Y (FR)	0.05394	0.20763	0.65667
	B1->Y (FR)	0.04926	0.20121	0.65128
	C0->Y (FR)	0.04303	0.19679	0.65163

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X2H7R	A0->Y (RF)	0.02461	0.11128	0.39304
	A1->Y (RF)	0.02330	0.10840	0.39466
	B0->Y (RF)	0.02242	0.10539	0.38599
	B1->Y (RF)	0.02095	0.10215	0.38815
	C0->Y (RF)	0.01154	0.06779	0.29473

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X2H7R	A0	0.00234	0.00237	0.00248
	A0	-0.00030	-0.00030	-0.00029
	A0	0.00024	0.00025	0.00025
	A0	0.00003	0.00007	0.00020
	A1	0.00215	0.00220	0.00234
	A1	-0.00032	-0.00030	-0.00029
	A1	0.00017	0.00018	0.00018
	A1	0.00002	0.00007	0.00024
	B0	0.00178	0.00183	0.00203
	B0	-0.00017	-0.00016	-0.00015
	B0	0.00021	0.00024	0.00025
	B0	0.00001	0.00006	0.00029
	B1	0.00160	0.00166	0.00188
	B1	-0.00016	-0.00015	-0.00014
	B1	0.00017	0.00018	0.00018
	B1	0.00001	0.00007	0.00036
	C0	0.00137	0.00145	0.00190
	C0	-0.00004	-0.00004	-0.00003
	C0	0.00024	0.00024	0.00025
	C0	-0.00007	0.00005	0.00067

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X2H7R	A0	-0.00013	-0.00009	0.00012
	A0	0.00030	0.00030	0.00031
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00202	0.00209	0.00230
	A1	-0.00013	-0.00006	0.00030
	A1	0.00029	0.00030	0.00032
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00183	0.00192	0.00229
	B0	-0.00012	-0.00007	0.00018
	B0	0.00015	0.00016	0.00019
	B0	-0.00018	-0.00018	-0.00017
	B0	0.00162	0.00169	0.00193
	B1	-0.00011	-0.00003	0.00038
	B1	0.00014	0.00016	0.00018
	B1	-0.00011	-0.00011	-0.00010
	B1	0.00140	0.00151	0.00190
	C0	-0.00014	-0.00003	0.00059
	C0	0.00004	0.00004	0.00005
	C0	-0.00011	-0.00011	-0.00010
	C0	0.00130	0.00140	0.00194

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7R	**(A1 * B0 * B1 * C0 * !Y)**	-0.00017	-0.00015	-0.00011
	(A1 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(A1 * B0 * B1 * !C0 * !Y)	-0.00017	-0.00015	-0.00011
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(A1 * !B1 * C0 * !Y)	-0.00016	-0.00014	-0.00010
	(A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * B1 * C0 * !Y)	-0.00016	-0.00014	-0.00010
	(A1 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7R	**(A1 * B0 * B1 * C0 * !Y)**	0.00016	0.00016	0.00017
	(A1 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * !Y)	-0.00025	-0.00025	-0.00024
	(A1 * B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(A1 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * B1 * !Y)	0.00021	0.00022	0.00022
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00022	-0.00022	-0.00020
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00021	0.00022	0.00022
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00022	-0.00022	-0.00020
	(!A1 * !B1 * !C0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00021	-0.00020	-0.00018
	(!A1 * !B0 * B1 * !C0 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7R	**(A0 * B0 * B1 * C0 * !Y)**	-0.00017	-0.00015	-0.00011
	(A0 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * B0 * B1 * !C0 * !Y)	-0.00017	-0.00015	-0.00011
	(A0 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * !B1 * C0 * !Y)	-0.00016	-0.00014	-0.00010
	(A0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * B1 * C0 * !Y)	-0.00017	-0.00014	-0.00010
	(A0 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * B1 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * !Y)	0.00024	0.00025	0.00025
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !B1 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * C0 * !Y)	0.00024	0.00025	0.00025
	(!A0 * !B1 * !C0 * Y)	-0.00030	-0.00030	-0.00029
	(!A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * !Y)	0.00024	0.00025	0.00025
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00030	-0.00030	-0.00029
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7R	**(A0 * B0 * B1 * C0 * !Y)**	0.00016	0.00017	0.00017
	(A0 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * B1 * C0 * !Y)	0.00016	0.00016	0.00017
	(A0 * !B0 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * B0 * B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B1 * !C0 * Y)	0.00030	0.00030	0.00030
	(!A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A0 * !B0 * B1 * !C0 * Y)	0.00030	0.00030	0.00030
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7R	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B1 * C0 * !Y)	-0.00021	-0.00019	-0.00015
	(!A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	0.00022	0.00023	0.00024
	(!A1 * !B1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * B1 * C0 * !Y)	-0.00021	-0.00019	-0.00015
	(!A0 * A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00022	0.00023	0.00024
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7R	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00020
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00020
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B1 * !C0 * Y)	0.00026	0.00027	0.00028
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !C0 * Y)	0.00026	0.00027	0.00028
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7R	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * C0 * !Y)	0.00026	0.00026	0.00027
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * C0 * !Y)	-0.00019	-0.00017	-0.00014
	(!A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00019	-0.00017	-0.00014
	(!A0 * A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X2H7R	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * B0 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !B0 * !C0 * Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00023	-0.00022	-0.00020
	(!A0 * A1 * !B0 * !C0 * Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X2H7R	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00035	0.00035	0.00035
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00035	0.00035	0.00035
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !Y)	0.00035	0.00035	0.00035
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00035	0.00035	0.00035

Passive power(pJ) for C0 falling (conditional):

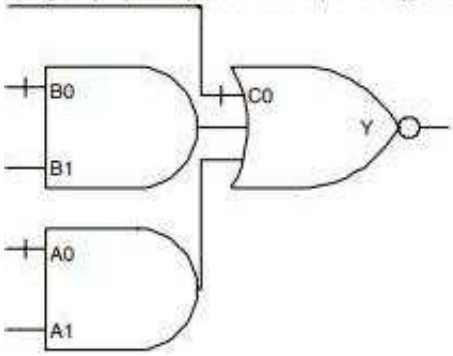
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X2H7R	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !Y)	-0.00035	-0.00035	-0.00034
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00035	-0.00035	-0.00035
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	-0.00035	-0.00035	-0.00034

AOI221X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X3H7R	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X3H7R	0.00158	0.00150	0.00153	0.00176	0.00164	0.03948

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X3H7R	0.00000	0.31359	1.17250

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X3H7R	A0->Y (FR)	0.05862	0.20712	0.62555
	A1->Y (FR)	0.05389	0.20108	0.61960
	B0->Y (FR)	0.05192	0.20511	0.65452
	B1->Y (FR)	0.04776	0.19917	0.64811
	C0->Y (FR)	0.04054	0.19414	0.64954

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X3H7R	A0->Y (RF)	0.02405	0.11178	0.39627
	A1->Y (RF)	0.02221	0.10871	0.40012
	B0->Y (RF)	0.02167	0.10539	0.39005
	B1->Y (RF)	0.02033	0.10246	0.39207
	C0->Y (RF)	0.01121	0.06772	0.29774

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X3H7R	A0	0.00378	0.00383	0.00403
	A0	-0.00045	-0.00045	-0.00044
	A0	0.00034	0.00038	0.00038
	A0	0.00001	0.00006	0.00029
	A1	0.00345	0.00353	0.00377
	A1	-0.00045	-0.00045	-0.00044
	A1	0.00027	0.00027	0.00027
	A1	0.00005	0.00014	0.00045
	B0	0.00289	0.00295	0.00328
	B0	-0.00024	-0.00023	-0.00020
	B0	0.00037	0.00038	0.00038
	B0	-0.00003	0.00005	0.00044
	B1	0.00267	0.00276	0.00314
	B1	-0.00026	-0.00024	-0.00021
	B1	0.00027	0.00027	0.00027
	B1	0.00001	0.00012	0.00061
	C0	0.00217	0.00232	0.00306
	C0	-0.00006	-0.00006	-0.00003
	C0	0.00037	0.00038	0.00038
	C0	-0.00020	0.00000	0.00103

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X3H7R	A0	-0.00021	-0.00014	0.00022
	A0	0.00045	0.00046	0.00046
	A0	-0.00027	-0.00027	-0.00027
	A0	0.00332	0.00343	0.00378
	A1	-0.00019	-0.00009	0.00052
	A1	0.00046	0.00046	0.00046
	A1	-0.00016	-0.00016	-0.00014
	A1	0.00291	0.00307	0.00367
	B0	-0.00020	-0.00012	0.00031
	B0	0.00023	0.00024	0.00026
	B0	-0.00027	-0.00027	-0.00027
	B0	0.00266	0.00276	0.00316
	B1	-0.00030	-0.00013	0.00054
	B1	0.00021	0.00024	0.00033
	B1	-0.00016	-0.00016	-0.00016
	B1	0.00226	0.00245	0.00309
	C0	-0.00020	-0.00001	0.00101
	C0	0.00005	0.00006	0.00009
	C0	-0.00016	-0.00016	-0.00015
	C0	0.00217	0.00236	0.00322

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7R	**(A1 * B0 * B1 * C0 * !Y)**	-0.00027	-0.00023	-0.00018
	(A1 * B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00045	0.00046	0.00046
	(A1 * B0 * B1 * !C0 * !Y)	-0.00028	-0.00024	-0.00018
	(A1 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00045	0.00046	0.00046
	(A1 * !B1 * C0 * !Y)	-0.00026	-0.00022	-0.00016
	(A1 * !B1 * C0 * !Y)	-0.00005	-0.00004	-0.00004
	(A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * C0 * !Y)	0.00046	0.00046	0.00047
	(A1 * !B0 * B1 * C0 * !Y)	-0.00026	-0.00022	-0.00016
	(A1 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * C0 * !Y)	0.00046	0.00046	0.00047
	(!A1 * B0 * B1 * !Y)	-0.00036	-0.00036	-0.00036
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	0.00041	0.00041	0.00042
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00036	-0.00036	-0.00035
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00041	0.00042	0.00042
	(!A1 * !B1 * !C0 * Y)	-0.00038	-0.00038	-0.00038
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00041	0.00042	0.00042
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00038	-0.00038	-0.00038
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00041	0.00042	0.00042

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7R	**(A1 * B0 * B1 * C0 * !Y)**	0.00027	0.00027	0.00027
	(A1 * B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00045	-0.00045	-0.00045
	(A1 * B0 * B1 * !C0 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00045	-0.00045	-0.00045
	(A1 * !B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B1 * C0 * !Y)	0.00004	0.00004	0.00005
	(A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * C0 * !Y)	-0.00046	-0.00046	-0.00045
	(A1 * !B0 * B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * !Y)	-0.00046	-0.00046	-0.00045
	(!A1 * B0 * B1 * !Y)	0.00036	0.00036	0.00036
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00042	-0.00040	-0.00039
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00035	0.00036	0.00036
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00042	-0.00040	-0.00039
	(!A1 * !B1 * !C0 * Y)	0.00038	0.00039	0.00041
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00040	-0.00038	-0.00037
	(!A1 * !B0 * B1 * !C0 * Y)	0.00038	0.00039	0.00040
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00040	-0.00038	-0.00036

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7R	**(A0 * B0 * B1 * C0 * !Y)**	-0.00024	-0.00021	-0.00016
	(A0 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00002
	(A0 * B0 * B1 * C0 * !Y)	0.00043	0.00043	0.00044
	(A0 * B0 * B1 * !C0 * !Y)	-0.00025	-0.00021	-0.00016
	(A0 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * !Y)	0.00043	0.00043	0.00043
	(A0 * !B1 * C0 * !Y)	-0.00024	-0.00020	-0.00016
	(A0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * !Y)	0.00044	0.00044	0.00044
	(A0 * !B0 * B1 * C0 * !Y)	-0.00024	-0.00020	-0.00015
	(A0 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00003	-0.00002
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00043	0.00044	0.00044
	(!A0 * B0 * B1 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * B1 * C0 * !Y)	0.00039	0.00040	0.00040
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * B1 * !C0 * !Y)	0.00039	0.00040	0.00040
	(!A0 * !B1 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * C0 * !Y)	0.00040	0.00040	0.00040
	(!A0 * !B1 * !C0 * Y)	-0.00044	-0.00044	-0.00044
	(!A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B1 * !C0 * Y)	0.00010	0.00010	0.00011
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00031	-0.00031	-0.00030
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * B1 * C0 * !Y)	0.00039	0.00040	0.00040
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00044	-0.00044	-0.00044
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * B1 * !C0 * Y)	0.00010	0.00010	0.00011

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7R	**(A0 * B0 * B1 * C0 * !Y)**	0.00024	0.00024	0.00024
	(A0 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * !Y)	-0.00043	-0.00043	-0.00043
	(A0 * B0 * B1 * !C0 * !Y)	0.00024	0.00025	0.00025
	(A0 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * !Y)	-0.00043	-0.00043	-0.00043
	(A0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * !Y)	-0.00044	-0.00044	-0.00043
	(A0 * !B0 * B1 * C0 * !Y)	0.00023	0.00023	0.00024
	(A0 * !B0 * B1 * C0 * !Y)	0.00002	0.00003	0.00004
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00044	-0.00043	-0.00043
	(!A0 * B0 * B1 * C0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B0 * B1 * C0 * !Y)	-0.00040	-0.00039	-0.00037
	(!A0 * B0 * B1 * !C0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00040	-0.00038	-0.00037
	(!A0 * !B1 * C0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B1 * C0 * !Y)	-0.00040	-0.00039	-0.00037
	(!A0 * !B1 * !C0 * Y)	0.00044	0.00044	0.00045
	(!A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B1 * !C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * B1 * C0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00040	-0.00039	-0.00036
	(!A0 * !B0 * B1 * !C0 * Y)	0.00044	0.00044	0.00045
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7R	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * C0 * !Y)	0.00048	0.00048	0.00048
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * !Y)	0.00047	0.00048	0.00048
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * A1 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * !Y)	0.00044	0.00044	0.00045
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	0.00045	0.00045	0.00045
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00036	-0.00035	-0.00035
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00039	0.00040	0.00040
	(!A1 * B1 * C0 * !Y)	-0.00030	-0.00026	-0.00021
	(!A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * !Y)	0.00044	0.00045	0.00047
	(!A1 * !B1 * !C0 * Y)	-0.00040	-0.00040	-0.00040
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00036	0.00036	0.00037
	(!A0 * A1 * B1 * C0 * !Y)	-0.00030	-0.00026	-0.00021
	(!A0 * A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00044	0.00045	0.00047
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00036	0.00036	0.00037

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7R	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * C0 * !Y)	-0.00048	-0.00048	-0.00047
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !C0 * !Y)	-0.00048	-0.00047	-0.00046
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * C0 * !Y)	-0.00045	-0.00043	-0.00041
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00045	-0.00043	-0.00041
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00035	0.00035	0.00036
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00040	-0.00039	-0.00037
	(!A1 * B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * !Y)	-0.00044	-0.00044	-0.00044
	(!A1 * !B1 * !C0 * Y)	0.00041	0.00041	0.00043
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00035	-0.00034	-0.00032
	(!A0 * A1 * B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00044	-0.00044	-0.00044
	(!A0 * A1 * !B1 * !C0 * Y)	0.00041	0.00041	0.00043
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00035	-0.00034	-0.00032

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7R	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * C0 * !Y)	0.00047	0.00047	0.00047
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * !Y)	0.00047	0.00047	0.00047
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * A1 * !B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B0 * C0 * !Y)	0.00044	0.00044	0.00044
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * !B0 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * !Y)	0.00044	0.00044	0.00044
	(!A1 * B0 * C0 * !Y)	-0.00037	-0.00033	-0.00027
	(!A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	0.00042	0.00043	0.00045
	(!A1 * !B0 * C0 * !Y)	-0.00042	-0.00042	-0.00042
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * C0 * !Y)	0.00038	0.00038	0.00038
	(!A1 * !B0 * !C0 * Y)	-0.00059	-0.00058	-0.00058
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !C0 * Y)	0.00006	0.00006	0.00007
	(!A0 * A1 * B0 * C0 * !Y)	-0.00037	-0.00033	-0.00027
	(!A0 * A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00042	0.00043	0.00045
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00043	-0.00042	-0.00042
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * C0 * !Y)	0.00038	0.00038	0.00038
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00059	-0.00058	-0.00058
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00005	0.00005	0.00006
	(!A0 * A1 * !B0 * !C0 * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X3H7R	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * C0 * !Y)	-0.00047	-0.00047	-0.00047
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C0 * !Y)	-0.00047	-0.00046	-0.00046
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * A1 * !B0 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B0 * C0 * !Y)	-0.00044	-0.00042	-0.00041
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00044	-0.00042	-0.00040
	(!A1 * B0 * C0 * !Y)	0.00036	0.00036	0.00037
	(!A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !Y)	-0.00042	-0.00042	-0.00042
	(!A1 * !B0 * C0 * !Y)	0.00042	0.00042	0.00043
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00038	-0.00037	-0.00035
	(!A1 * !B0 * !C0 * Y)	0.00058	0.00058	0.00059
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * C0 * !Y)	0.00036	0.00037	0.00037
	(!A0 * A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00043	-0.00042	-0.00042
	(!A0 * A1 * !B0 * C0 * !Y)	0.00042	0.00042	0.00043
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00038	-0.00037	-0.00035
	(!A0 * A1 * !B0 * !C0 * Y)	0.00058	0.00058	0.00059
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X3H7R	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00063	0.00063	0.00064
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00062	0.00063	0.00063
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !Y)	0.00063	0.00063	0.00064
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00063	0.00063	0.00064

Passive power(pJ) for C0 falling (conditional):

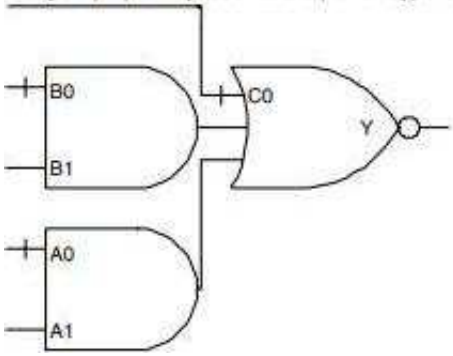
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X3H7R	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	-0.00063	-0.00063	-0.00062
	(A0 * A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	-0.00063	-0.00062	-0.00062
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00063	-0.00063	-0.00062
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00063	-0.00063	-0.00062

AOI221X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI221 cell provides the logical inverted OR of two AND groups and a third input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	x	0	x	0	1
0	x	x	x	1	0
0	x	1	0	0	1
x	x	1	1	x	0
1	0	0	x	0	1
1	0	x	x	1	0
1	0	1	0	0	1
1	1	x	x	x	0

Footprint

Cell Name	Area
AOI221X4H7R	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**Y**
AOI221X4H7R	0.00194	0.00173	0.00171	0.00194	0.00183	0.05048

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI221X4H7R	0.00000	0.40027	1.48827

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X4H7R	A0->Y (FR)	0.05489	0.20440	0.62711
	A1->Y (FR)	0.04956	0.19773	0.62056
	B0->Y (FR)	0.04795	0.20217	0.65521
	B1->Y (FR)	0.04346	0.19581	0.64948
	C0->Y (FR)	0.03730	0.19185	0.65182

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI221X4H7R	A0->Y (RF)	0.02215	0.10867	0.39156
	A1->Y (RF)	0.01996	0.10499	0.39343
	B0->Y (RF)	0.01966	0.10212	0.38491
	B1->Y (RF)	0.01817	0.09882	0.38717
	C0->Y (RF)	0.01031	0.06556	0.29452

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X4H7R	A0	0.00457	0.00463	0.00489
	A0	-0.00059	-0.00059	-0.00058
	A0	0.00049	0.00049	0.00054
	A0	-0.00002	0.00005	0.00034
	A1	0.00410	0.00420	0.00455
	A1	-0.00059	-0.00059	-0.00058
	A1	0.00035	0.00035	0.00036
	A1	0.00005	0.00016	0.00058
	B0	0.00339	0.00349	0.00393
	B0	-0.00032	-0.00031	-0.00029
	B0	0.00042	0.00049	0.00049
	B0	-0.00003	0.00007	0.00059
	B1	0.00312	0.00324	0.00376
	B1	-0.00034	-0.00031	-0.00026
	B1	0.00035	0.00035	0.00036
	B1	-0.00001	0.00013	0.00079
	C0	0.00259	0.00276	0.00373
	C0	-0.00008	-0.00008	0.00000
	C0	0.00049	0.00049	0.00049
	C0	-0.00021	0.00004	0.00137

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI221X4H7R	A0	-0.00027	-0.00018	0.00027
	A0	0.00060	0.00061	0.00061
	A0	-0.00035	-0.00035	-0.00035
	A0	0.00402	0.00416	0.00460
	A1	-0.00024	-0.00010	0.00067
	A1	0.00060	0.00061	0.00061
	A1	-0.00021	-0.00021	-0.00019
	A1	0.00341	0.00366	0.00445
	B0	-0.00023	-0.00012	0.00043
	B0	0.00029	0.00031	0.00032
	B0	-0.00035	-0.00035	-0.00035
	B0	0.00319	0.00328	0.00381
	B1	-0.00031	-0.00013	0.00074
	B1	0.00026	0.00031	0.00034
	B1	-0.00021	-0.00021	-0.00021
	B1	0.00269	0.00291	0.00375
	C0	-0.00023	0.00001	0.00133
	C0	0.00001	0.00008	0.00011
	C0	-0.00021	-0.00021	-0.00020
	C0	0.00262	0.00281	0.00392

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7R	**(A1 * B0 * B1 * C0 * !Y)**	-0.00035	-0.00030	-0.00023
	(A1 * B0 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * C0 * !Y)	0.00053	0.00054	0.00054
	(A1 * B0 * B1 * !C0 * !Y)	-0.00036	-0.00031	-0.00023
	(A1 * B0 * B1 * !C0 * !Y)	-0.00006	-0.00005	-0.00005
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00053	0.00054	0.00055
	(A1 * !B1 * C0 * !Y)	-0.00034	-0.00029	-0.00021
	(A1 * !B1 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * C0 * !Y)	0.00054	0.00055	0.00055
	(A1 * !B0 * B1 * C0 * !Y)	-0.00034	-0.00029	-0.00021
	(A1 * !B0 * B1 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00002
	(A1 * !B0 * B1 * C0 * !Y)	0.00054	0.00055	0.00055
	(!A1 * B0 * B1 * !Y)	-0.00047	-0.00047	-0.00046
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	0.00048	0.00049	0.00049
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00047	-0.00047	-0.00046
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00048	0.00049	0.00049
	(!A1 * !B1 * !C0 * Y)	-0.00050	-0.00049	-0.00049
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00048	0.00048	0.00048
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00050	-0.00049	-0.00049
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00048	0.00048	0.00048

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7R	**(A1 * B0 * B1 * C0 * !Y)**	0.00034	0.00035	0.00035
	(A1 * B0 * B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * !Y)	-0.00053	-0.00053	-0.00053
	(A1 * B0 * B1 * !C0 * !Y)	0.00036	0.00036	0.00036
	(A1 * B0 * B1 * !C0 * !Y)	0.00005	0.00005	0.00006
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00053	-0.00053	-0.00053
	(A1 * !B1 * C0 * !Y)	0.00033	0.00034	0.00034
	(A1 * !B1 * C0 * !Y)	0.00006	0.00006	0.00007
	(A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * C0 * !Y)	-0.00054	-0.00054	-0.00053
	(A1 * !B0 * B1 * C0 * !Y)	0.00033	0.00034	0.00034
	(A1 * !B0 * B1 * C0 * !Y)	0.00006	0.00006	0.00007
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00054	-0.00054	-0.00053
	(!A1 * B0 * B1 * !Y)	0.00046	0.00047	0.00047
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !Y)	-0.00049	-0.00047	-0.00045
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00046	0.00047	0.00047
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !B1 * C0 * !Y) + (!A1 * !B0 * C0 * !Y)	-0.00049	-0.00047	-0.00045
	(!A1 * !B1 * !C0 * Y)	0.00050	0.00051	0.00052
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00046	-0.00044	-0.00041
	(!A1 * !B0 * B1 * !C0 * Y)	0.00050	0.00051	0.00052
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00046	-0.00044	-0.00041

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7R	**(A0 * B0 * B1 * C0 * !Y)**	-0.00030	-0.00026	-0.00021
	(A0 * B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * B0 * B1 * C0 * !Y)	0.00048	0.00049	0.00049
	(A0 * B0 * B1 * !C0 * !Y)	-0.00030	-0.00026	-0.00021
	(A0 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * B0 * B1 * !C0 * !Y)	0.00049	0.00049	0.00049
	(A0 * !B1 * C0 * !Y)	-0.00029	-0.00025	-0.00020
	(A0 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * C0 * !Y)	0.00049	0.00049	0.00050
	(A0 * !B0 * B1 * C0 * !Y)	-0.00029	-0.00025	-0.00020
	(A0 * !B0 * B1 * C0 * !Y)	-0.00005	-0.00004	-0.00004
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * B1 * C0 * !Y)	0.00049	0.00049	0.00050
	(!A0 * B0 * B1 * C0 * !Y)	-0.00037	-0.00037	-0.00037
	(!A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * C0 * !Y)	0.00044	0.00044	0.00045
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00037	-0.00037	-0.00037
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * !C0 * !Y)	0.00044	0.00044	0.00045
	(!A0 * !B1 * C0 * !Y)	-0.00037	-0.00037	-0.00037
	(!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * C0 * !Y)	0.00044	0.00044	0.00045
	(!A0 * !B1 * !C0 * Y)	-0.00053	-0.00052	-0.00052
	(!A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00037	-0.00037	-0.00037
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * C0 * !Y)	0.00044	0.00044	0.00045
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00053	-0.00052	-0.00052
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * !C0 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7R	**(A0 * B0 * B1 * C0 * !Y)**	0.00030	0.00030	0.00030
	(A0 * B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * !Y)	-0.00049	-0.00049	-0.00048
	(A0 * B0 * B1 * !C0 * !Y)	0.00030	0.00030	0.00031
	(A0 * B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * !Y)	-0.00049	-0.00049	-0.00048
	(A0 * !B1 * C0 * !Y)	0.00029	0.00029	0.00029
	(A0 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * !Y)	-0.00049	-0.00049	-0.00048
	(A0 * !B0 * B1 * C0 * !Y)	0.00029	0.00029	0.00029
	(A0 * !B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00005
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00049	-0.00049	-0.00048
	(!A0 * B0 * B1 * C0 * !Y)	0.00037	0.00037	0.00037
	(!A0 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * C0 * !Y)	-0.00045	-0.00043	-0.00041
	(!A0 * B0 * B1 * !C0 * !Y)	0.00037	0.00037	0.00037
	(!A0 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * !C0 * !Y)	-0.00045	-0.00043	-0.00040
	(!A0 * !B1 * C0 * !Y)	0.00037	0.00037	0.00037
	(!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * C0 * !Y)	-0.00045	-0.00043	-0.00040
	(!A0 * !B1 * !C0 * Y)	0.00052	0.00053	0.00053
	(!A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * B1 * C0 * !Y)	0.00037	0.00037	0.00037
	(!A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * C0 * !Y)	-0.00045	-0.00043	-0.00040
	(!A0 * !B0 * B1 * !C0 * Y)	0.00052	0.00053	0.00053
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7R	**(A0 * A1 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * B1 * C0 * !Y)	0.00052	0.00052	0.00052
	(A0 * A1 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * B1 * !C0 * !Y)	0.00051	0.00052	0.00052
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * A1 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * !Y)	0.00047	0.00048	0.00048
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00010	-0.00010	-0.00009
	(A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	0.00048	0.00048	0.00048
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00042	-0.00042	-0.00041
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00043	0.00043	0.00043
	(!A1 * B1 * C0 * !Y)	-0.00036	-0.00032	-0.00026
	(!A1 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B1 * C0 * !Y)	0.00048	0.00049	0.00051
	(!A1 * !B1 * !C0 * Y)	-0.00047	-0.00046	-0.00046
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00040	0.00040	0.00041
	(!A0 * A1 * B1 * C0 * !Y)	-0.00036	-0.00032	-0.00026
	(!A0 * A1 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B1 * C0 * !Y)	0.00048	0.00049	0.00051
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00047	-0.00046	-0.00046
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00040	0.00040	0.00041

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7R	**(A0 * A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * C0 * !Y)	-0.00052	-0.00052	-0.00051
	(A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !C0 * !Y)	-0.00052	-0.00051	-0.00051
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * !Y)	-0.00048	-0.00047	-0.00044
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00009	0.00010	0.00010
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00048	-0.00047	-0.00045
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00041	0.00042	0.00042
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B1 * C0 * !Y) + (!A0 * !B1 * C0 * !Y)	-0.00043	-0.00042	-0.00039
	(!A1 * B1 * C0 * !Y)	0.00036	0.00036	0.00036
	(!A1 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * !Y)	-0.00048	-0.00048	-0.00048
	(!A1 * !B1 * !C0 * Y)	0.00047	0.00048	0.00049
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00002	0.00003
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00039	-0.00037	-0.00034
	(!A0 * A1 * B1 * C0 * !Y)	0.00036	0.00036	0.00036
	(!A0 * A1 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	-0.00048	-0.00048	-0.00048
	(!A0 * A1 * !B1 * !C0 * Y)	0.00047	0.00048	0.00049
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00039	-0.00037	-0.00034

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7R	**(A0 * A1 * B0 * C0 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * C0 * !Y)	0.00053	0.00054	0.00054
	(A0 * A1 * B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * !Y)	0.00053	0.00053	0.00054
	(A0 * A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	-0.00017	-0.00016	-0.00016
	(A0 * A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B0 * C0 * !Y)	0.00049	0.00050	0.00050
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B0 * !C0 * !Y)	0.00050	0.00050	0.00050
	(!A1 * B0 * C0 * !Y)	-0.00043	-0.00039	-0.00033
	(!A1 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !Y)	0.00049	0.00050	0.00051
	(!A1 * !B0 * C0 * !Y)	-0.00050	-0.00049	-0.00049
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * C0 * !Y)	0.00044	0.00044	0.00044
	(!A1 * !B0 * !C0 * Y)	-0.00067	-0.00067	-0.00066
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * B0 * C0 * !Y)	-0.00044	-0.00039	-0.00033
	(!A0 * A1 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00049	0.00050	0.00052
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00050	-0.00049	-0.00049
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * !B0 * C0 * !Y)	0.00044	0.00044	0.00044
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00067	-0.00067	-0.00066
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI221X4H7R	**(A0 * A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * C0 * !Y)	-0.00054	-0.00054	-0.00053
	(A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * !Y)	0.00012	0.00013	0.00013
	(A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C0 * !Y)	-0.00053	-0.00053	-0.00052
	(A0 * A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * !Y)	0.00016	0.00016	0.00017
	(A0 * A1 * !B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B0 * C0 * !Y)	-0.00050	-0.00048	-0.00046
	(A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * !Y)	-0.00050	-0.00048	-0.00045
	(!A1 * B0 * C0 * !Y)	0.00043	0.00043	0.00043
	(!A1 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !Y)	-0.00049	-0.00049	-0.00049
	(!A1 * !B0 * C0 * !Y)	0.00049	0.00049	0.00050
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * C0 * !Y)	-0.00044	-0.00043	-0.00041
	(!A1 * !B0 * !C0 * Y)	0.00066	0.00067	0.00067
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A1 * !B0 * !C0 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * A1 * B0 * C0 * !Y)	0.00043	0.00043	0.00044
	(!A0 * A1 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00049	-0.00049	-0.00049
	(!A0 * A1 * !B0 * C0 * !Y)	0.00049	0.00049	0.00050
	(!A0 * A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * !B0 * C0 * !Y)	-0.00044	-0.00042	-0.00040
	(!A0 * A1 * !B0 * !C0 * Y)	0.00066	0.00067	0.00067
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X4H7R	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00070	0.00070	0.00071
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00069	0.00070	0.00070
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !Y)	0.00070	0.00070	0.00070
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00069	0.00070	0.00070

Passive power(pJ) for C0 falling (conditional):

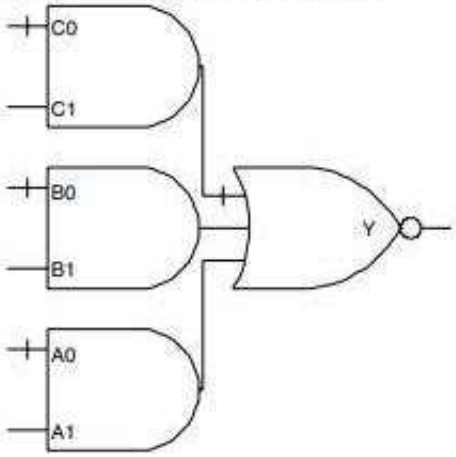
Cell Name	When	Power(pJ)		
		min	avg	max
AOI221X4H7R	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	-0.00070	-0.00070	-0.00069
	(A0 * A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	-0.00070	-0.00069	-0.00068
	(A0 * A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !Y)	-0.00070	-0.00069	-0.00069
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00001
	(!A1 * B0 * B1 * !Y)	0.00006	0.00006	0.00007
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00070	-0.00070	-0.00069

AOI222X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X0P5H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X0P5H7R	0.00063	0.00063	0.00071	0.00069	0.00069	0.00072	0.01385

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X0P5H7R	0.00000	0.13351	0.42958

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X0P5H7R	A0->Y (FR)	0.08602	0.23129	0.63176
	A1->Y (FR)	0.08102	0.22535	0.62603
	B0->Y (FR)	0.08015	0.23025	0.65990
	B1->Y (FR)	0.07546	0.22465	0.65498
	C0->Y (FR)	0.06085	0.21131	0.64774
	C1->Y (FR)	0.05820	0.20756	0.64513

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X0P5H7R	A0->Y (RF)	0.03716	0.12560	0.40182
	A1->Y (RF)	0.03531	0.12355	0.40776
	B0->Y (RF)	0.03401	0.11947	0.39533
	B1->Y (RF)	0.03217	0.11716	0.40062
	C0->Y (RF)	0.02613	0.10843	0.38448
	C1->Y (RF)	0.02525	0.10686	0.39039

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X0P5H7R	A0	0.00181	0.00183	0.00188
	A0	-0.00020	-0.00020	-0.00019
	A0	0.00017	0.00017	0.00017
	A0	0.00007	0.00009	0.00015
	A1	0.00170	0.00172	0.00177
	A1	-0.00019	-0.00019	-0.00019
	A1	0.00011	0.00013	0.00013
	A1	0.00009	0.00012	0.00020
	B0	0.00143	0.00146	0.00154
	B0	-0.00014	-0.00013	-0.00011
	B0	0.00017	0.00017	0.00017
	B0	0.00001	0.00004	0.00016
	B1	0.00136	0.00139	0.00147
	B1	-0.00013	-0.00013	-0.00011
	B1	0.00012	0.00013	0.00013
	B1	0.00004	0.00008	0.00021
	C0	0.00106	0.00111	0.00133
	C0	-0.00005	-0.00004	-0.00003
	C0	0.00017	0.00017	0.00017
	C0	-0.00004	0.00002	0.00030
	C1	0.00099	0.00104	0.00126
	C1	-0.00005	-0.00004	-0.00003
	C1	0.00013	0.00013	0.00013
	C1	-0.00004	0.00002	0.00031

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X0P5H7R	A0	-0.00007	-0.00005	0.00007
	A0	0.00020	0.00020	0.00021
	A0	-0.00010	-0.00009	-0.00009
	A0	0.00156	0.00160	0.00172
	A1	-0.00007	-0.00003	0.00017
	A1	0.00020	0.00020	0.00021
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00140	0.00146	0.00166
	B0	-0.00004	-0.00001	0.00011
	B0	0.00011	0.00013	0.00014
	B0	-0.00010	-0.00010	-0.00009
	B0	0.00135	0.00138	0.00149
	B1	-0.00006	-0.00002	0.00019
	B1	0.00011	0.00013	0.00014
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00120	0.00125	0.00145
	C0	-0.00007	-0.00003	0.00016
	C0	0.00004	0.00005	0.00006
	C0	-0.00009	-0.00009	-0.00009
	C0	0.00106	0.00109	0.00125
	C1	-0.00008	-0.00002	0.00025
	C1	0.00004	0.00005	0.00006
	C1	-0.00006	-0.00006	-0.00005
	C1	0.00097	0.00101	0.00125

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7R	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(A1 * B0 * B1 * !C1 * !Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(A1 * !B1 * C0 * C1 * !Y)	-0.00009	-0.00008	-0.00006
	(A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * !Y)	0.00020	0.00021	0.00021
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00009	-0.00008	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B1 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7R	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * B0 * B1 * !C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B1 * C0 * C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	-0.00000	0.00002	0.00015
	(A1 * !B1 * C0 * C1 * !Y)	-0.00021	-0.00020	-0.00020
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00009	0.00009	0.00010
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B1 * !C1 * Y)	0.00013	0.00014	0.00014
	(!A1 * !B1 * !C1 * Y)	-0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C1 * Y)	0.00013	0.00014	0.00014
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00013	0.00014	0.00014
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7R	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00009	-0.00008	-0.00006
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * B0 * B1 * !C1 * !Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00019
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00010	-0.00008	-0.00006
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !B1 * C0 * C1 * !Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00019
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00009	-0.00008	-0.00006
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B1 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7R	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * B0 * B1 * !C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00009	0.00010	0.00010
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !B1 * C0 * C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * B0 * B1 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B1 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B1 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * B1 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7R	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00020	0.00021	0.00021
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B1 * C0 * C1 * !Y)	-0.00011	-0.00010	-0.00008
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00011	-0.00010	-0.00008
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7R	**(A0 * A1 * B1 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B1 * C0 * C1 * !Y)	0.00011	0.00011	0.00011
	(!A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00015	-0.00014	-0.00013
	(!A1 * !B1 * !C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00011	0.00011	0.00011
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B1 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00015	-0.00014	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7R	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00004	-0.00005	-0.00004
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * C1 * !Y)	-0.00014	-0.00012	-0.00010
	(!A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00014	-0.00012	-0.00010
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7R	**(A0 * A1 * B0 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00004	0.00005	0.00004
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00019	-0.00018	-0.00017
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00019	-0.00018	-0.00017
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A1 * B0 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00016	-0.00015	-0.00015
	(!A1 * !B0 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A1 * !B0 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7R	**(A1 * B0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00023	0.00024	0.00024
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00023	0.00023	0.00024
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7R	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B1 * !C1 * Y)	0.00017	0.00017	0.00018
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A1 * !B0 * B1 * !C1 * Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A1 * !B1 * !C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00014	-0.00013	-0.00012

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P5H7R	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * !C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

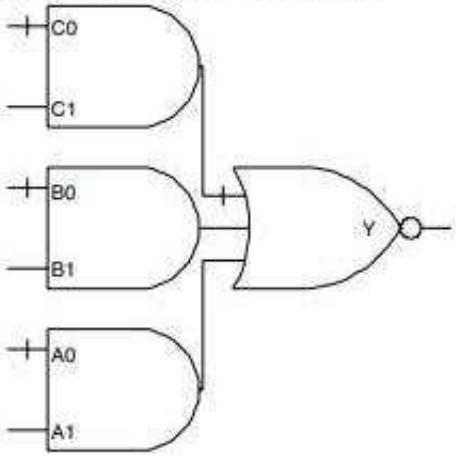
AOI222X0P5H7R	**(A1 * B0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B1 * !C0 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

AOI222X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X0P7H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X0P7H7R	0.00067	0.00067	0.00074	0.00073	0.00073	0.00076	0.01564

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X0P7H7R	0.00000	0.15045	0.48419

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X0P7H7R	A0->Y (FR)	0.08161	0.22742	0.63073
	A1->Y (FR)	0.07658	0.22138	0.62474
	B0->Y (FR)	0.07546	0.22620	0.65825
	B1->Y (FR)	0.07109	0.22087	0.65430
	C0->Y (FR)	0.05797	0.20878	0.64755
	C1->Y (FR)	0.05475	0.20458	0.64560

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X0P7H7R	A0->Y (RF)	0.03532	0.12317	0.40000
	A1->Y (RF)	0.03294	0.12040	0.40442
	B0->Y (RF)	0.03163	0.11670	0.39317
	B1->Y (RF)	0.03000	0.11419	0.39730
	C0->Y (RF)	0.02454	0.10635	0.38261
	C1->Y (RF)	0.02336	0.10419	0.38710

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X0P7H7R	A0	0.00196	0.00197	0.00203
	A0	-0.00022	-0.00022	-0.00022
	A0	0.00019	0.00019	0.00019
	A0	0.00006	0.00008	0.00015
	A1	0.00183	0.00185	0.00191
	A1	-0.00022	-0.00022	-0.00022
	A1	0.00015	0.00015	0.00015
	A1	0.00008	0.00011	0.00020
	B0	0.00154	0.00158	0.00167
	B0	-0.00014	-0.00014	-0.00013
	B0	0.00019	0.00019	0.00019
	B0	0.00001	0.00004	0.00017
	B1	0.00145	0.00149	0.00158
	B1	-0.00016	-0.00015	-0.00013
	B1	0.00015	0.00015	0.00015
	B1	0.00003	0.00007	0.00022
	C0	0.00115	0.00120	0.00145
	C0	-0.00005	-0.00005	-0.00004
	C0	0.00019	0.00019	0.00019
	C0	-0.00006	0.00001	0.00032
	C1	0.00106	0.00112	0.00136
	C1	-0.00005	-0.00005	-0.00004
	C1	0.00015	0.00015	0.00015
	C1	-0.00005	0.00002	0.00035

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X0P7H7R	A0	-0.00008	-0.00005	0.00008
	A0	0.00023	0.00023	0.00024
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00170	0.00174	0.00187
	A1	-0.00007	-0.00003	0.00019
	A1	0.00022	0.00022	0.00024
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00153	0.00159	0.00181
	B0	-0.00005	-0.00002	0.00012
	B0	0.00013	0.00015	0.00017
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00145	0.00150	0.00163
	B1	-0.00010	-0.00002	0.00022
	B1	0.00013	0.00015	0.00020
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00130	0.00136	0.00159
	C0	-0.00008	-0.00003	0.00018
	C0	0.00005	0.00005	0.00006
	C0	-0.00011	-0.00011	-0.00011
	C0	0.00116	0.00120	0.00138
	C1	-0.00008	-0.00002	0.00029
	C1	0.00005	0.00005	0.00016
	C1	-0.00006	-0.00006	-0.00006
	C1	0.00104	0.00110	0.00137

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7R	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00021	0.00021	0.00022
	(A1 * B0 * B1 * !C1 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00011	-0.00009	-0.00007
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00022
	(A1 * !B1 * C0 * C1 * !Y)	-0.00010	-0.00009	-0.00006
	(A1 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * C0 * C1 * !Y)	0.00021	0.00021	0.00022
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00010	-0.00009	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B1 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00019	0.00020	0.00020
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00019	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7R	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * B0 * B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B1 * C0 * C1 * !Y)	0.00010	0.00010	0.00011
	(A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B1 * C0 * C1 * !Y)	-0.00000	0.00002	0.00017
	(A1 * !B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00010	0.00010	0.00011
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B1 * !C1 * Y)	0.00014	0.00015	0.00015
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B1 * !C0 * C1 * Y)	0.00014	0.00015	0.00015
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * B1 * !C1 * Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00019	-0.00019	-0.00017
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00019	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7R	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00010	-0.00009	-0.00007
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * B0 * B1 * !C1 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B1 * C0 * C1 * !Y)	-0.00010	-0.00009	-0.00006
	(A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00010	-0.00009	-0.00006
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7R	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * B0 * B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00010	0.00011	0.00011
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B1 * C0 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * B0 * B1 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !B0 * B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7R	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00005	-0.00004	-0.00004
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00019
	(!A1 * B1 * C0 * C1 * !Y)	-0.00013	-0.00011	-0.00009
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00013	-0.00011	-0.00009
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7R	**(A0 * A1 * B1 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00005
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00001	0.00003	0.00028
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00020
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00020
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00020
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B1 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C1 * Y)	0.00018	0.00019	0.00019
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A1 * !B1 * !C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B1 * !C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00015	-0.00015	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7R	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * C0 * C1 * !Y)	-0.00015	-0.00013	-0.00011
	(!A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00015	-0.00013	-0.00011
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7R	**(A0 * A1 * B0 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00019
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00020	-0.00019	-0.00018
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * B0 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * C0 * C1 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * !B0 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7R	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00026	0.00026	0.00026
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00015	0.00016	0.00016

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7R	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00025	-0.00025	-0.00024
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00015	-0.00014	-0.00013
	(!A1 * !B0 * B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * A1 * !B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00015	-0.00014	-0.00013

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X0P7H7R	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00028	0.00028	0.00029
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00028	0.00028	0.00029
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00027	0.00027	0.00028
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00028	0.00028	0.00029
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00027	0.00027	0.00028
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

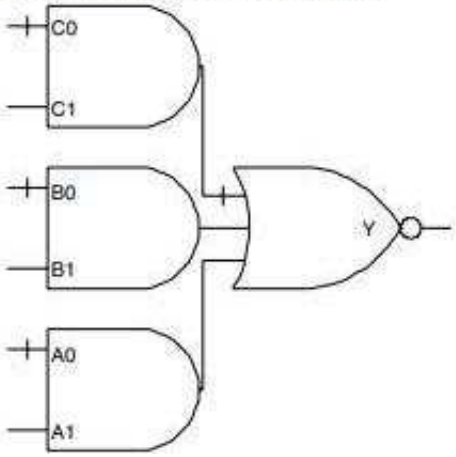
AOI222X0P7H7R	**(A1 * B0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

AOI222X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X1H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X1H7R	0.00072	0.00073	0.00080	0.00079	0.00079	0.00082	0.01863

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X1H7R	0.00000	0.17489	0.55908

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X1H7R	A0->Y (FR)	0.07638	0.22326	0.63111
	A1->Y (FR)	0.07139	0.21731	0.62530
	B0->Y (FR)	0.07099	0.22302	0.66064
	B1->Y (FR)	0.06631	0.21742	0.65604
	C0->Y (FR)	0.05314	0.20502	0.64789
	C1->Y (FR)	0.04973	0.20060	0.64435

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X1H7R	A0->Y (RF)	0.03278	0.12178	0.40342
	A1->Y (RF)	0.02859	0.11764	0.40705
	B0->Y (RF)	0.02994	0.11606	0.39692
	B1->Y (RF)	0.02818	0.11316	0.40045
	C0->Y (RF)	0.02273	0.10534	0.38672
	C1->Y (RF)	0.02143	0.10282	0.38988

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X1H7R	A0	0.00219	0.00221	0.00228
	A0	-0.00027	-0.00027	-0.00027
	A0	0.00023	0.00023	0.00023
	A0	0.00006	0.00008	0.00017
	A1	0.00204	0.00207	0.00215
	A1	-0.00029	-0.00027	-0.00025
	A1	0.00015	0.00018	0.00019
	A1	0.00008	0.00012	0.00023
	B0	0.00176	0.00180	0.00190
	B0	-0.00018	-0.00018	-0.00016
	B0	0.00021	0.00023	0.00023
	B0	0.00002	0.00005	0.00020
	B1	0.00164	0.00168	0.00179
	B1	-0.00017	-0.00017	-0.00014
	B1	0.00018	0.00018	0.00018
	B1	0.00004	0.00009	0.00027
	C0	0.00129	0.00134	0.00163
	C0	-0.00006	-0.00006	-0.00005
	C0	0.00022	0.00023	0.00023
	C0	-0.00007	0.00000	0.00037
	C1	0.00118	0.00124	0.00153
	C1	-0.00006	-0.00006	-0.00002
	C1	0.00017	0.00018	0.00018
	C1	-0.00006	0.00002	0.00042

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X1H7R	A0	-0.00009	-0.00006	0.00009
	A0	0.00028	0.00028	0.00029
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00192	0.00196	0.00211
	A1	-0.00009	-0.00004	0.00022
	A1	0.00025	0.00027	0.00029
	A1	-0.00008	-0.00007	-0.00007
	A1	0.00173	0.00180	0.00205
	B0	-0.00007	-0.00003	0.00014
	B0	0.00016	0.00018	0.00020
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00165	0.00169	0.00184
	B1	-0.00007	-0.00002	0.00026
	B1	0.00016	0.00018	0.00020
	B1	-0.00008	-0.00008	-0.00007
	B1	0.00146	0.00153	0.00179
	C0	-0.00009	-0.00004	0.00022
	C0	0.00005	0.00006	0.00007
	C0	-0.00013	-0.00013	-0.00012
	C0	0.00130	0.00134	0.00156
	C1	-0.00009	-0.00002	0.00036
	C1	0.00006	0.00006	0.00007
	C1	-0.00008	-0.00007	-0.00007
	C1	0.00115	0.00122	0.00155

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7R	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00012	-0.00011	-0.00008
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(A1 * B0 * B1 * !C1 * !Y)	-0.00013	-0.00011	-0.00008
	(A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00022	0.00023	0.00023
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00013	-0.00011	-0.00008
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00022	0.00023	0.00023
	(A1 * !B1 * C0 * C1 * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7R	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00012	0.00012	0.00012
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * B1 * !C1 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B1 * C0 * C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B1 * C0 * C1 * !Y)	-0.00000	0.00003	0.00020
	(A1 * !B1 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00022
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B1 * !C1 * Y)	0.00016	0.00017	0.00018
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B1 * !C0 * C1 * Y)	0.00016	0.00017	0.00018
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * B1 * !C1 * Y)	0.00016	0.00017	0.00018
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00016	0.00017	0.00018
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7R	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00012	-0.00011	-0.00008
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * B0 * B1 * !C1 * !Y)	-0.00012	-0.00011	-0.00008
	(A0 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00012	-0.00011	-0.00008
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B1 * C0 * C1 * !Y)	-0.00012	-0.00010	-0.00008
	(A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * !Y)	0.00020	0.00021	0.00021
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00012	-0.00010	-0.00007
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00020	0.00021	0.00021
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7R	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00012	0.00012	0.00012
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B1 * C0 * C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * B0 * B1 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !B1 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * !C1 * Y)	-0.00002	-0.00003	-0.00002
	(!A0 * !B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00003	-0.00002
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !B0 * B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00003	-0.00002
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00003	-0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7R	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00024	0.00024	0.00025
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B1 * C0 * C1 * !Y)	-0.00015	-0.00013	-0.00010
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B1 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00017	0.00018	0.00018
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00017	0.00018	0.00018
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00015	-0.00013	-0.00010
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00017	0.00018	0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00017	0.00018	0.00018

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7R	**(A0 * A1 * B1 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00005	0.00006	0.00006
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00023	-0.00022	-0.00021
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * B1 * C0 * C1 * !Y)	0.00014	0.00015	0.00015
	(!A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B1 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A1 * !B1 * !C0 * C1 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00014	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7R	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00022	0.00023	0.00023
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * C0 * C1 * !Y)	-0.00016	-0.00014	-0.00011
	(!A1 * B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * C1 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00016	-0.00014	-0.00011
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7R	**(A0 * A1 * B0 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00020
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00021	-0.00021	-0.00020
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * B0 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * C1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B0 * !C1 * Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7R	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C1 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * C1 * !Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00017	0.00017	0.00017

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7R	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00001	-0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00027	-0.00026	-0.00025
	(!A1 * !B1 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A1 * !B1 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1H7R	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00030	0.00030	0.00031
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00003	-0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00002	-0.00003	-0.00002
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00030	0.00030	0.00031
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00003	-0.00002
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00030	0.00030	0.00031
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00029	0.00029	0.00030
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00030	0.00030	0.00031
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B1 * !C0 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00027
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

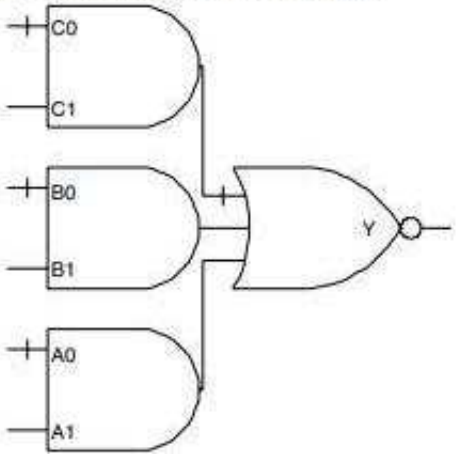
AOI222X1H7R	**(A1 * B0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00031	-0.00030	-0.00030
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00029	-0.00028	-0.00028
	(!A1 * !B1 * !C0 * Y)	0.00027	0.00028	0.00028
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	0.00027	0.00028	0.00028
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	0.00027	0.00028	0.00028
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00027	0.00028	0.00028
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

AOI222X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X1P4H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X1P4H7R	0.00078	0.00079	0.00085	0.00087	0.00086	0.00087	0.02121

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X1P4H7R	0.00000	0.19850	0.63335

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X1P4H7R	A0->Y (FR)	0.07326	0.22058	0.63118
	A1->Y (FR)	0.06826	0.21460	0.62530
	B0->Y (FR)	0.06772	0.22019	0.65901
	B1->Y (FR)	0.06339	0.21496	0.65597
	C0->Y (FR)	0.05190	0.20412	0.64884
	C1->Y (FR)	0.04783	0.19920	0.64569

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X1P4H7R	A0->Y (RF)	0.03172	0.12003	0.40160
	A1->Y (RF)	0.02986	0.11698	0.40396
	B0->Y (RF)	0.02833	0.11379	0.39438
	B1->Y (RF)	0.02672	0.11085	0.39768
	C0->Y (RF)	0.02185	0.10398	0.38609
	C1->Y (RF)	0.02024	0.10099	0.38800

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X1P4H7R	A0	0.00242	0.00244	0.00252
	A0	-0.00032	-0.00031	-0.00031
	A0	0.00026	0.00026	0.00026
	A0	0.00004	0.00006	0.00017
	A1	0.00225	0.00228	0.00237
	A1	-0.00032	-0.00031	-0.00029
	A1	0.00017	0.00020	0.00021
	A1	0.00006	0.00010	0.00023
	B0	0.00194	0.00198	0.00211
	B0	-0.00023	-0.00021	-0.00018
	B0	0.00026	0.00026	0.00026
	B0	0.00002	0.00006	0.00024
	B1	0.00180	0.00185	0.00198
	B1	-0.00020	-0.00020	-0.00018
	B1	0.00020	0.00020	0.00021
	B1	0.00003	0.00008	0.00029
	C0	0.00145	0.00151	0.00183
	C0	-0.00007	-0.00007	-0.00006
	C0	0.00026	0.00026	0.00026
	C0	-0.00005	0.00003	0.00044
	C1	0.00131	0.00138	0.00172
	C1	-0.00007	-0.00007	-0.00006
	C1	0.00020	0.00020	0.00020
	C1	-0.00005	0.00004	0.00050

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X1P4H7R	A0	-0.00010	-0.00007	0.00010
	A0	0.00033	0.00033	0.00033
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00213	0.00218	0.00235
	A1	-0.00010	-0.00005	0.00026
	A1	0.00033	0.00033	0.00033
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00191	0.00200	0.00229
	B0	-0.00009	-0.00005	0.00014
	B0	0.00018	0.00021	0.00023
	B0	-0.00015	-0.00015	-0.00014
	B0	0.00180	0.00185	0.00203
	B1	-0.00009	-0.00003	0.00029
	B1	0.00018	0.00021	0.00023
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00163	0.00169	0.00199
	C0	-0.00011	-0.00005	0.00025
	C0	0.00007	0.00007	0.00008
	C0	-0.00015	-0.00015	-0.00014
	C0	0.00143	0.00148	0.00173
	C1	-0.00011	-0.00003	0.00041
	C1	0.00007	0.00007	0.00008
	C1	-0.00009	-0.00009	-0.00008
	C1	0.00127	0.00135	0.00172

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7R	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00014	-0.00012	-0.00009
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(A1 * B0 * B1 * !C1 * !Y)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00014	-0.00012	-0.00009
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B1 * C0 * C1 * !Y)	-0.00014	-0.00011	-0.00009
	(A1 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00014	-0.00011	-0.00009
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B1 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00000	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7R	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00014	0.00014	0.00014
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * B0 * B1 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * !B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B1 * C0 * C1 * !Y)	-0.00001	0.00003	0.00023
	(A1 * !B1 * C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1 * B0 * B1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B1 * !C1 * Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B1 * !C0 * C1 * Y)	0.00018	0.00019	0.00020
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * B1 * !C1 * Y)	0.00018	0.00019	0.00020
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00018	0.00019	0.00020
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7R	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00014	-0.00012	-0.00009
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00021	0.00021	0.00022
	(A0 * B0 * B1 * !C1 * !Y)	-0.00014	-0.00012	-0.00009
	(A0 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00021	0.00021	0.00022
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00014	-0.00012	-0.00009
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00021	0.00021	0.00022
	(A0 * !B1 * C0 * C1 * !Y)	-0.00013	-0.00011	-0.00009
	(A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00013	-0.00011	-0.00009
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B1 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * !C0 * C1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7R	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00014	0.00014	0.00014
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * B0 * B1 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * B0 * B1 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !B0 * B1 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7R	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * B1 * C0 * C1 * !Y)	-0.00017	-0.00015	-0.00012
	(!A1 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00021	0.00022	0.00023
	(!A1 * !B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00017	-0.00015	-0.00012
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00021	0.00022	0.00023
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00017	0.00017	0.00018

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7R	**(A0 * A1 * B1 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	0.00004	0.00034
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00020
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	0.00005	0.00040
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * B1 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B1 * !C1 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A1 * !B1 * !C0 * C1 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7R	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * C0 * C1 * !Y)	-0.00018	-0.00015	-0.00012
	(!A1 * B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00018	-0.00015	-0.00012
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7R	**(A0 * A1 * B0 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00022	-0.00021	-0.00020
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * B0 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * C1 * !Y)	-0.00000	-0.00001	-0.00000
	(!A1 * B0 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * !C1 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * !B0 * !C1 * Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7R	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C1 * !Y)	0.00030	0.00030	0.00030
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00028	0.00028	0.00029
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	0.00028	0.00029	0.00029
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00028	0.00028	0.00029
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00003	-0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00028	0.00028	0.00029
	(!A1 * !B1 * !C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00017	0.00017	0.00017

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7R	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00029	-0.00028	-0.00027
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00029	-0.00028	-0.00027
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00029	-0.00028	-0.00027
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C1 * !Y)	-0.00030	-0.00030	-0.00029
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00003	0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00028	-0.00028	-0.00027
	(!A1 * !B1 * !C1 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * B1 * !C1 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00016	-0.00016	-0.00014
	(!A0 * A1 * !B1 * !C1 * Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X1P4H7R	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00032	0.00032	0.00032
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * !Y)	0.00030	0.00030	0.00031
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	0.00030	0.00030	0.00031
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00031	0.00032	0.00032
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00030	0.00030	0.00031
	(!A1 * !B1 * !C0 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00030	-0.00030	-0.00029
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00030	-0.00030	-0.00029
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

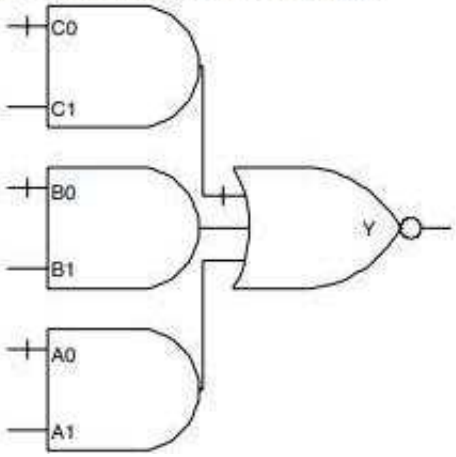
AOI222X1P4H7R	**(A1 * B0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00031	-0.00030	-0.00029
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00032	-0.00032	-0.00031
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00031	-0.00030	-0.00029
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00032	-0.00032	-0.00031
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00030	-0.00030	-0.00028
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * !Y)	-0.00032	-0.00032	-0.00031
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B1 * !C0 * Y)	0.00029	0.00030	0.00030
	(!A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	0.00029	0.00030	0.00030
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	0.00029	0.00030	0.00030
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00029	0.00030	0.00030
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

AOI222X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X2H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X2H7R	0.00091	0.00095	0.00092	0.00094	0.00089	0.00098	0.02496

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X2H7R	0.00000	0.23490	0.75040

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X2H7R	A0->Y (FR)	0.07111	0.21974	0.63406
	A1->Y (FR)	0.06633	0.21391	0.62837
	B0->Y (FR)	0.06469	0.21799	0.66065
	B1->Y (FR)	0.05986	0.21234	0.65622
	C0->Y (FR)	0.04790	0.20109	0.64900
	C1->Y (FR)	0.04469	0.19667	0.64612

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X2H7R	A0->Y (RF)	0.02987	0.11700	0.39576
	A1->Y (RF)	0.02760	0.11360	0.39790
	B0->Y (RF)	0.02488	0.10920	0.38867
	B1->Y (RF)	0.02312	0.10598	0.39036
	C0->Y (RF)	0.01972	0.10018	0.37928
	C1->Y (RF)	0.01823	0.09718	0.38173

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X2H7R	A0	0.00282	0.00284	0.00292
	A0	-0.00038	-0.00038	-0.00037
	A0	0.00030	0.00032	0.00032
	A0	0.00005	0.00008	0.00019
	A1	0.00262	0.00266	0.00276
	A1	-0.00038	-0.00038	-0.00037
	A1	0.00024	0.00025	0.00025
	A1	0.00007	0.00012	0.00027
	B0	0.00220	0.00225	0.00240
	B0	-0.00024	-0.00024	-0.00021
	B0	0.00029	0.00032	0.00032
	B0	-0.00001	0.00004	0.00025
	B1	0.00203	0.00209	0.00225
	B1	-0.00025	-0.00024	-0.00021
	B1	0.00023	0.00025	0.00028
	B1	0.00001	0.00007	0.00033
	C0	0.00161	0.00169	0.00207
	C0	-0.00009	-0.00009	-0.00003
	C0	0.00031	0.00032	0.00032
	C0	-0.00007	0.00003	0.00052
	C1	0.00149	0.00157	0.00197
	C1	-0.00009	-0.00009	-0.00003
	C1	0.00024	0.00025	0.00025
	C1	-0.00007	0.00005	0.00060

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X2H7R	A0	-0.00012	-0.00009	0.00011
	A0	0.00037	0.00038	0.00041
	A0	-0.00018	-0.00018	-0.00017
	A0	0.00246	0.00253	0.00273
	A1	-0.00012	-0.00006	0.00029
	A1	0.00037	0.00038	0.00041
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00221	0.00232	0.00267
	B0	-0.00010	-0.00005	0.00018
	B0	0.00022	0.00025	0.00028
	B0	-0.00018	-0.00018	-0.00017
	B0	0.00207	0.00213	0.00234
	B1	-0.00011	-0.00004	0.00035
	B1	0.00022	0.00025	0.00027
	B1	-0.00011	-0.00011	-0.00009
	B1	0.00183	0.00192	0.00229
	C0	-0.00012	-0.00005	0.00032
	C0	0.00008	0.00009	0.00013
	C0	-0.00018	-0.00017	-0.00017
	C0	0.00161	0.00167	0.00198
	C1	-0.00015	-0.00005	0.00048
	C1	0.00008	0.00009	0.00010
	C1	-0.00011	-0.00011	-0.00010
	C1	0.00143	0.00151	0.00197

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7R	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00017	-0.00015	-0.00011
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00025	0.00026	0.00026
	(A1 * B0 * B1 * !C1 * !Y)	-0.00018	-0.00015	-0.00011
	(A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00025	0.00026	0.00026
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00018	-0.00015	-0.00011
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B1 * C0 * C1 * !Y)	-0.00017	-0.00014	-0.00010
	(A1 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00017	-0.00014	-0.00010
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7R	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00017	0.00017	0.00017
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00026	-0.00025	-0.00025
	(A1 * B0 * B1 * !C1 * !Y)	0.00017	0.00018	0.00018
	(A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00017	0.00018	0.00018
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B1 * C0 * C1 * !Y)	0.00016	0.00017	0.00017
	(A1 * !B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B1 * C0 * C1 * !Y)	-0.00001	0.00003	0.00027
	(A1 * !B1 * C0 * C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00016	0.00017	0.00017
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * B0 * B1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B1 * !C1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B1 * !C0 * C1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * B1 * !C1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7R	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00017	-0.00015	-0.00011
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00024	0.00025	0.00025
	(A0 * B0 * B1 * !C1 * !Y)	-0.00017	-0.00015	-0.00011
	(A0 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00024	0.00025	0.00025
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00017	-0.00015	-0.00011
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00024	0.00025	0.00025
	(A0 * !B1 * C0 * C1 * !Y)	-0.00016	-0.00014	-0.00010
	(A0 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00016	-0.00014	-0.00010
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !B1 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !B1 * !C0 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * B1 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7R	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00017	0.00017	0.00017
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * B0 * B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(A0 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C1 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00017	0.00017	0.00017
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * !B1 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * B0 * B1 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B1 * !C1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B1 * !C0 * C1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * B1 * !C1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7R	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B1 * C0 * C1 * !Y)	-0.00019	-0.00016	-0.00013
	(!A1 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00026
	(!A1 * !B1 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00019	-0.00016	-0.00013
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7R	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00002	0.00002	0.00025
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00022	-0.00022	-0.00020
	(!A1 * B1 * C0 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B1 * !C1 * Y)	0.00025	0.00026	0.00027
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B1 * !C0 * C1 * Y)	0.00025	0.00026	0.00027
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B1 * !C1 * Y)	0.00025	0.00026	0.00027
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00025	0.00026	0.00027
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7R	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * C0 * C1 * !Y)	-0.00021	-0.00018	-0.00014
	(!A1 * B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !C1 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00021	-0.00018	-0.00014
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7R	**(A0 * A1 * B0 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00024	-0.00023	-0.00022
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00024	-0.00023	-0.00022
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * !C1 * Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A1 * !B0 * !C1 * Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7R	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C1 * !Y)	0.00031	0.00031	0.00032
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C1 * !Y)	0.00031	0.00031	0.00032
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00031	0.00031	0.00032
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00031	0.00031	0.00031
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	0.00029	0.00030	0.00030
	(!A1 * !B1 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7R	**(A1 * B0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00030	-0.00029	-0.00028
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00030	-0.00029	-0.00028
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00030	-0.00029	-0.00028
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00030	-0.00029	-0.00028
	(!A1 * !B1 * !C1 * Y)	0.00025	0.00025	0.00026
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * !B0 * B1 * !C1 * Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B1 * !C1 * Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00025	0.00025	0.00026
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X2H7R	**(A1 * B0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00034	0.00034	0.00035
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !C0 * !Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00034	0.00034	0.00035
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	0.00033	0.00033	0.00033
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00034	0.00034	0.00035
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00033	0.00033	0.00033
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00034	0.00034	0.00034
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	0.00033	0.00033	0.00033
	(!A1 * !B1 * !C0 * Y)	-0.00036	-0.00035	-0.00035
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00036	-0.00035	-0.00035
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00036	-0.00035	-0.00035
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00036	-0.00035	-0.00035
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

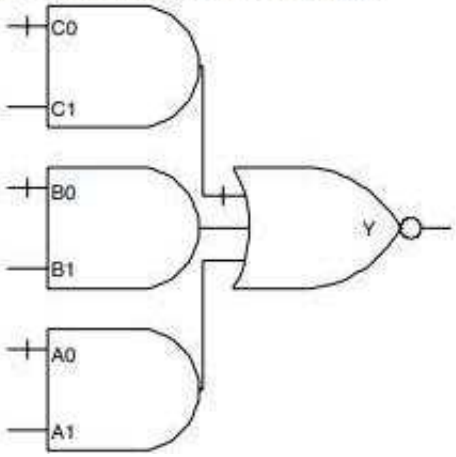
AOI222X2H7R	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00035	-0.00034	-0.00034
	(A1 * B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * !C0 * !Y)	-0.00033	-0.00032	-0.00031
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00035	-0.00034	-0.00034
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00033	-0.00032	-0.00031
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00033	-0.00032	-0.00030
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * C0 * !Y)	-0.00034	-0.00034	-0.00034
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00033	-0.00032	-0.00030
	(!A1 * !B1 * !C0 * Y)	0.00035	0.00035	0.00036
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	0.00035	0.00035	0.00036
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B1 * !C0 * Y)	0.00035	0.00035	0.00036
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00035	0.00035	0.00036
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004

AOI222X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X3H7R	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X3H7R	0.00158	0.00150	0.00147	0.00169	0.00152	0.00178	0.03861

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X3H7R	0.00000	0.36894	1.18176

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X3H7R	A0->Y (FR)	0.07112	0.21860	0.63018
	A1->Y (FR)	0.06647	0.21275	0.62441
	B0->Y (FR)	0.06439	0.21701	0.65765
	B1->Y (FR)	0.06046	0.21158	0.65188
	C0->Y (FR)	0.04836	0.20128	0.64869
	C1->Y (FR)	0.04510	0.19628	0.64343

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X3H7R	A0->Y (RF)	0.03018	0.11753	0.39751
	A1->Y (RF)	0.02834	0.11455	0.40064
	B0->Y (RF)	0.02493	0.10970	0.39043
	B1->Y (RF)	0.02488	0.10798	0.39417
	C0->Y (RF)	0.02014	0.10116	0.38173
	C1->Y (RF)	0.01911	0.09875	0.38569

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X3H7R	A0	0.00456	0.00461	0.00476
	A0	-0.00057	-0.00057	-0.00056
	A0	0.00048	0.00049	0.00049
	A0	0.00008	0.00013	0.00034
	A1	0.00423	0.00430	0.00447
	A1	-0.00057	-0.00057	-0.00054
	A1	0.00033	0.00038	0.00043
	A1	0.00013	0.00022	0.00048
	B0	0.00365	0.00372	0.00397
	B0	-0.00036	-0.00036	-0.00018
	B0	0.00048	0.00049	0.00049
	B0	0.00005	0.00012	0.00049
	B1	0.00344	0.00352	0.00379
	B1	-0.00039	-0.00036	-0.00032
	B1	0.00035	0.00038	0.00038
	B1	0.00009	0.00019	0.00063
	C0	0.00272	0.00283	0.00345
	C0	-0.00013	-0.00013	-0.00010
	C0	0.00048	0.00048	0.00049
	C0	-0.00015	0.00002	0.00080
	C1	0.00249	0.00263	0.00327
	C1	-0.00013	-0.00013	-0.00007
	C1	0.00037	0.00038	0.00038
	C1	-0.00011	0.00007	0.00096

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X3H7R	A0	-0.00020	-0.00014	0.00019
	A0	0.00056	0.00057	0.00063
	A0	-0.00027	-0.00027	-0.00027
	A0	0.00402	0.00413	0.00445
	A1	-0.00019	-0.00008	0.00049
	A1	0.00060	0.00060	0.00060
	A1	-0.00016	-0.00016	-0.00014
	A1	0.00361	0.00376	0.00432
	B0	-0.00017	-0.00008	0.00030
	B0	0.00019	0.00037	0.00042
	B0	-0.00027	-0.00027	-0.00027
	B0	0.00336	0.00347	0.00383
	B1	-0.00026	-0.00010	0.00053
	B1	0.00034	0.00038	0.00046
	B1	-0.00017	-0.00016	-0.00015
	B1	0.00299	0.00316	0.00375
	C0	-0.00014	-0.00003	0.00056
	C0	0.00012	0.00013	0.00016
	C0	-0.00027	-0.00027	-0.00026
	C0	0.00279	0.00288	0.00337
	C1	-0.00015	0.00001	0.00085
	C1	0.00012	0.00014	0.00033
	C1	-0.00016	-0.00016	-0.00015
	C1	0.00247	0.00262	0.00334

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7R	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00027	-0.00023	-0.00017
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00046	0.00046	0.00046
	(A1 * B0 * B1 * !C1 * !Y)	-0.00028	-0.00023	-0.00017
	(A1 * B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00046	0.00046	0.00047
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00028	-0.00023	-0.00018
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00046	0.00046	0.00047
	(A1 * !B1 * C0 * C1 * !Y)	-0.00026	-0.00022	-0.00016
	(A1 * !B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00046	0.00047	0.00049
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00026	-0.00022	-0.00016
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00046	0.00047	0.00049
	(!A1 * B0 * B1 * !Y)	-0.00036	-0.00036	-0.00035
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * B1 * !Y)	0.00042	0.00042	0.00042
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00036	-0.00036	-0.00035
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00042	0.00042	0.00042
	(!A1 * !B1 * !C1 * Y)	-0.00038	-0.00037	-0.00037
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C1 * Y)	0.00041	0.00042	0.00042
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00038	-0.00037	-0.00037
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	0.00041	0.00042	0.00042
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00038	-0.00037	-0.00037
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	0.00042	0.00042	0.00042
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00038	-0.00037	-0.00037
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00042	0.00042	0.00042

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7R	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00026	0.00027	0.00027
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00046	-0.00046	-0.00045
	(A1 * B0 * B1 * !C1 * !Y)	0.00027	0.00028	0.00028
	(A1 * B0 * B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C1 * !Y)	-0.00046	-0.00046	-0.00046
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00027	0.00028	0.00028
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00046	-0.00045	-0.00044
	(A1 * !B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B1 * C0 * C1 * !Y)	0.00003	0.00004	0.00004
	(A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * C0 * C1 * !Y)	-0.00047	-0.00046	-0.00046
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00003	0.00004	0.00004
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00046	-0.00046	-0.00045
	(!A1 * B0 * B1 * !Y)	0.00035	0.00036	0.00036
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00042	-0.00041	-0.00039
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00036	0.00036	0.00036
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00042	-0.00041	-0.00039
	(!A1 * !B1 * !C1 * Y)	0.00038	0.00039	0.00040
	(!A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00003
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00040	-0.00039	-0.00036
	(!A1 * !B1 * !C0 * C1 * Y)	0.00038	0.00038	0.00040
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00040	-0.00039	-0.00036
	(!A1 * !B0 * B1 * !C1 * Y)	0.00038	0.00038	0.00040
	(!A1 * !B0 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00040	-0.00039	-0.00036
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00038	0.00038	0.00040
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00040	-0.00039	-0.00036

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7R	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00024	-0.00021	-0.00016
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00043	0.00043	0.00043
	(A0 * B0 * B1 * !C1 * !Y)	-0.00025	-0.00021	-0.00016
	(A0 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C1 * !Y)	0.00043	0.00043	0.00044
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00025	-0.00021	-0.00016
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00043	0.00043	0.00044
	(A0 * !B1 * C0 * C1 * !Y)	-0.00024	-0.00020	-0.00015
	(A0 * !B1 * C0 * C1 * !Y)	-0.00004	-0.00003	-0.00002
	(A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * C0 * C1 * !Y)	0.00044	0.00044	0.00044
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00024	-0.00020	-0.00016
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00044	0.00044	0.00045
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00031	-0.00030	-0.00030
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00039	0.00040	0.00040
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00031	-0.00030	-0.00030
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * B1 * !C1 * !Y)	0.00039	0.00040	0.00040
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00031	-0.00030	-0.00030
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00039	0.00040	0.00040
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00031	-0.00030	-0.00030
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B1 * C0 * C1 * !Y)	0.00039	0.00040	0.00040
	(!A0 * !B1 * !C1 * Y)	-0.00044	-0.00044	-0.00044
	(!A0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B1 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00011
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00044	-0.00044	-0.00044
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B1 * !C0 * C1 * Y)	0.00010	0.00010	0.00011
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00031	-0.00031	-0.00030
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00039	0.00040	0.00040
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00044	-0.00044	-0.00044
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * B1 * !C1 * Y)	0.00010	0.00010	0.00011
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00044	-0.00044	-0.00044
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00010	0.00010	0.00011

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7R	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00024	0.00024	0.00024
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00043	-0.00043	-0.00043
	(A0 * B0 * B1 * !C1 * !Y)	0.00024	0.00024	0.00025
	(A0 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * !Y)	-0.00043	-0.00043	-0.00043
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00024	0.00024	0.00025
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00043	-0.00043	-0.00043
	(A0 * !B1 * C0 * C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00004
	(A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * !Y)	-0.00044	-0.00044	-0.00043
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00044	-0.00044	-0.00043
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00030	0.00031	0.00031
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00040	-0.00039	-0.00037
	(!A0 * B0 * B1 * !C1 * !Y)	0.00031	0.00031	0.00031
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00040	-0.00038	-0.00036
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00030	0.00031	0.00031
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00040	-0.00038	-0.00036
	(!A0 * !B1 * C0 * C1 * !Y)	0.00030	0.00031	0.00031
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00040	-0.00038	-0.00036
	(!A0 * !B1 * !C1 * Y)	0.00044	0.00044	0.00045
	(!A0 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B1 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B1 * !C0 * C1 * Y)	0.00044	0.00044	0.00044
	(!A0 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00030	0.00031	0.00031
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00040	-0.00038	-0.00036
	(!A0 * !B0 * B1 * !C1 * Y)	0.00044	0.00044	0.00045
	(!A0 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00044	0.00044	0.00044
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7R	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00046	0.00047	0.00047
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * A1 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !C1 * !Y)	0.00046	0.00046	0.00047
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00046	0.00046	0.00047
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00044	0.00044	0.00044
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	0.00044	0.00044	0.00044
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00001	0.00002	0.00003
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00044	0.00044	0.00044
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00035	-0.00035	-0.00035
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00038	0.00038	0.00039
	(!A1 * B1 * C0 * C1 * !Y)	-0.00029	-0.00026	-0.00020
	(!A1 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B1 * C0 * C1 * !Y)	0.00043	0.00044	0.00046
	(!A1 * !B1 * !C1 * Y)	-0.00039	-0.00039	-0.00039
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C1 * Y)	0.00036	0.00036	0.00037
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00039	-0.00039	-0.00039
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	0.00036	0.00036	0.00036
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00029	-0.00025	-0.00020
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00043	0.00044	0.00045
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	0.00036	0.00036	0.00037
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00036	0.00036	0.00036

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7R	**(A0 * A1 * B1 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00047	-0.00047	-0.00046
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !C1 * !Y)	-0.00046	-0.00046	-0.00046
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00046	-0.00046	-0.00046
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00044	-0.00043	-0.00041
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00044	-0.00042	-0.00041
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00003	-0.00002	-0.00001
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00044	-0.00042	-0.00041
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00035	0.00035	0.00035
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00039	-0.00037	-0.00035
	(!A1 * B1 * C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(!A1 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * !Y)	-0.00043	-0.00042	-0.00042
	(!A1 * !B1 * !C1 * Y)	0.00039	0.00040	0.00041
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00035	-0.00034	-0.00031
	(!A1 * !B1 * !C0 * C1 * Y)	0.00039	0.00040	0.00041
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00035	-0.00033	-0.00031
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00043	-0.00043	-0.00042
	(!A0 * A1 * !B1 * !C1 * Y)	0.00039	0.00040	0.00041
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00035	-0.00034	-0.00031
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00039	0.00040	0.00041
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00035	-0.00034	-0.00031

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7R	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00047	0.00047	0.00047
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C1 * !Y)	0.00046	0.00047	0.00047
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00046	0.00047	0.00047
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00044	0.00044	0.00044
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00009	-0.00009	-0.00008
	(A0 * A1 * !B0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * !C1 * !Y)	0.00044	0.00044	0.00044
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00009	-0.00009	-0.00008
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00044	0.00044	0.00045
	(!A1 * B0 * C0 * C1 * !Y)	-0.00034	-0.00030	-0.00025
	(!A1 * B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00042	0.00043	0.00045
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00040	-0.00040	-0.00040
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * C0 * C1 * !Y)	0.00038	0.00038	0.00038
	(!A1 * !B0 * !C1 * Y)	-0.00056	-0.00056	-0.00055
	(!A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00056	-0.00056	-0.00055
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * C1 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !C0 * C1 * Y)	0.00006	0.00006	0.00007
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00035	-0.00030	-0.00025
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00042	0.00043	0.00044
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00040	-0.00040	-0.00040
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00038	0.00038	0.00038
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00056	-0.00056	-0.00055
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B0 * !C1 * Y)	0.00006	0.00006	0.00007
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00056	-0.00056	-0.00055
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00005	0.00005	0.00006
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7R	**(A0 * A1 * B0 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00047	-0.00047	-0.00047
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C1 * !Y)	-0.00047	-0.00046	-0.00046
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00047	-0.00046	-0.00046
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00044	-0.00043	-0.00041
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00008	0.00009	0.00009
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00044	-0.00042	-0.00040
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00008	0.00009	0.00009
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00044	-0.00042	-0.00040
	(!A1 * B0 * C0 * C1 * !Y)	0.00034	0.00034	0.00035
	(!A1 * B0 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * !Y)	-0.00043	-0.00042	-0.00042
	(!A1 * !B0 * C0 * C1 * !Y)	0.00040	0.00040	0.00040
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00038	-0.00037	-0.00035
	(!A1 * !B0 * !C1 * Y)	0.00055	0.00056	0.00056
	(!A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !C0 * C1 * Y)	0.00055	0.00056	0.00056
	(!A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00034	0.00034	0.00035
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00043	-0.00042	-0.00042
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00040	0.00040	0.00040
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00038	-0.00037	-0.00034
	(!A0 * A1 * !B0 * !C1 * Y)	0.00055	0.00056	0.00056
	(!A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00055	0.00056	0.00056
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7R	**(A1 * B0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C1 * !Y)	0.00057	0.00057	0.00058
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * !Y)	0.00054	0.00054	0.00055
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C1 * !Y)	0.00056	0.00057	0.00057
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	0.00054	0.00055	0.00055
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00057	0.00057	0.00058
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00054	0.00055	0.00055
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00057	0.00057	0.00057
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	0.00054	0.00055	0.00055
	(!A1 * !B1 * !C1 * Y)	-0.00039	-0.00039	-0.00039
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B1 * !C1 * Y)	0.00036	0.00036	0.00036
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00039	-0.00039	-0.00039
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	0.00036	0.00036	0.00036
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	0.00036	0.00036	0.00036
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00036	0.00036	0.00036

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7R	**(A1 * B0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C1 * !Y)	-0.00057	-0.00057	-0.00056
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * B1 * !C1 * !Y)	-0.00055	-0.00053	-0.00052
	(A0 * A1 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C1 * !Y)	-0.00057	-0.00056	-0.00056
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00055	-0.00053	-0.00051
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00057	-0.00056	-0.00056
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00055	-0.00054	-0.00052
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00057	-0.00057	-0.00056
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00055	-0.00053	-0.00051
	(!A1 * !B1 * !C1 * Y)	0.00040	0.00040	0.00042
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B1 * !C1 * Y)	-0.00035	-0.00034	-0.00031
	(!A1 * !B0 * B1 * !C1 * Y)	0.00040	0.00040	0.00042
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00035	-0.00034	-0.00031
	(!A0 * A1 * !B1 * !C1 * Y)	0.00040	0.00040	0.00042
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00035	-0.00034	-0.00031
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00040	0.00040	0.00042
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00035	-0.00034	-0.00031

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X3H7R	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C0 * !Y)	0.00062	0.00062	0.00063
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * !C0 * !Y)	0.00059	0.00059	0.00060
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00061	0.00062	0.00062
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	0.00059	0.00059	0.00059
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00062	0.00062	0.00062
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00003
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00059	0.00059	0.00060
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00061	0.00062	0.00062
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * !C0 * !Y)	0.00059	0.00059	0.00059
	(!A1 * !B1 * !C0 * Y)	-0.00056	-0.00056	-0.00056
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B1 * !C0 * Y)	0.00006	0.00007	0.00007
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00056	-0.00056	-0.00056
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * B1 * !C0 * Y)	0.00006	0.00007	0.00007
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00056	-0.00056	-0.00056
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B1 * !C0 * Y)	0.00006	0.00007	0.00007
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00056	-0.00056	-0.00056
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00006	0.00007	0.00007

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

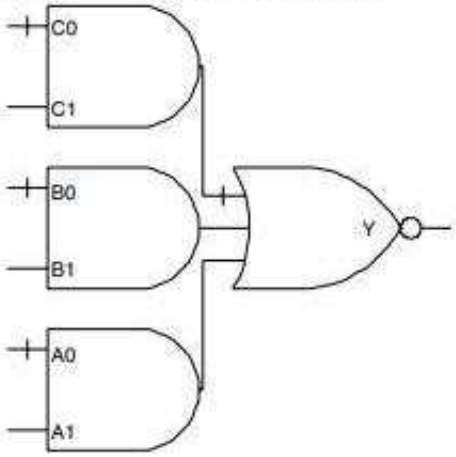
AOI222X3H7R	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * !Y)	-0.00062	-0.00062	-0.00062
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * !C0 * !Y)	-0.00059	-0.00058	-0.00056
	(A0 * A1 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00062	-0.00061	-0.00061
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00059	-0.00058	-0.00056
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00062	-0.00061	-0.00061
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00001
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00059	-0.00058	-0.00056
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00062	-0.00062	-0.00061
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00004	0.00004	0.00005
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00003	-0.00002	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00059	-0.00058	-0.00056
	(!A1 * !B1 * !C0 * Y)	0.00056	0.00056	0.00056
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A1 * !B0 * B1 * !C0 * Y)	0.00056	0.00056	0.00056
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * !B1 * !C0 * Y)	0.00056	0.00056	0.00056
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00056	0.00056	0.00056
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00006

AOI222X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI222 cell provides the logical inverted OR of three AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	x	0	x	0	x	1
0	x	0	x	1	0	1
0	x	x	x	1	1	0
0	x	1	0	0	x	1
0	x	1	0	1	0	1
x	x	1	1	x	x	0
1	0	0	x	0	x	1
1	0	0	x	1	0	1
1	0	x	x	1	1	0
1	0	1	0	0	x	1
1	0	1	0	1	0	1
1	1	x	x	x	x	0

Footprint

Cell Name	Area
AOI222X4H7R	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
AOI222X4H7R	0.00188	0.00176	0.00170	0.00197	0.00177	0.00207	0.04925

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI222X4H7R	0.00000	0.46981	1.50080

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X4H7R	A0->Y (FR)	0.06723	0.21566	0.63105
	A1->Y (FR)	0.06224	0.20947	0.62480
	B0->Y (FR)	0.06041	0.21380	0.65830
	B1->Y (FR)	0.05626	0.20811	0.65368
	C0->Y (FR)	0.04571	0.19946	0.65020
	C1->Y (FR)	0.04220	0.19413	0.64511

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI222X4H7R	A0->Y (RF)	0.02748	0.11379	0.39260
	A1->Y (RF)	0.02599	0.11082	0.39521
	B0->Y (RF)	0.02406	0.10716	0.38514
	B1->Y (RF)	0.02141	0.10327	0.38736
	C0->Y (RF)	0.01851	0.09824	0.37724
	C1->Y (RF)	0.01735	0.09544	0.37955

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X4H7R	A0	0.00555	0.00561	0.00581
	A0	-0.00076	-0.00075	-0.00070
	A0	0.00063	0.00063	0.00065
	A0	0.00006	0.00012	0.00039
	A1	0.00512	0.00521	0.00544
	A1	-0.00076	-0.00075	-0.00074
	A1	0.00043	0.00049	0.00050
	A1	0.00012	0.00022	0.00057
	B0	0.00438	0.00448	0.00482
	B0	-0.00048	-0.00047	-0.00025
	B0	0.00063	0.00063	0.00064
	B0	0.00004	0.00013	0.00061
	B1	0.00412	0.00423	0.00461
	B1	-0.00051	-0.00047	-0.00024
	B1	0.00041	0.00049	0.00050
	B1	0.00005	0.00017	0.00076
	C0	0.00331	0.00345	0.00423
	C0	-0.00018	-0.00017	0.00000
	C0	0.00062	0.00063	0.00063
	C0	-0.00015	0.00005	0.00105
	C1	0.00302	0.00318	0.00401
	C1	-0.00018	-0.00017	0.00000
	C1	0.00049	0.00049	0.00049
	C1	-0.00014	0.00010	0.00124

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI222X4H7R	A0	-0.00026	-0.00018	0.00024
	A0	0.00078	0.00079	0.00080
	A0	-0.00035	-0.00035	-0.00035
	A0	0.00494	0.00505	0.00545
	A1	-0.00024	-0.00011	0.00063
	A1	0.00076	0.00077	0.00081
	A1	-0.00022	-0.00021	-0.00020
	A1	0.00431	0.00458	0.00531
	B0	-0.00022	-0.00012	0.00038
	B0	0.00027	0.00049	0.00055
	B0	-0.00035	-0.00035	-0.00035
	B0	0.00407	0.00419	0.00466
	B1	-0.00031	-0.00013	0.00068
	B1	0.00027	0.00049	0.00055
	B1	-0.00021	-0.00021	-0.00021
	B1	0.00366	0.00385	0.00462
	C0	-0.00020	-0.00003	0.00073
	C0	0.00011	0.00017	0.00024
	C0	-0.00035	-0.00035	-0.00035
	C0	0.00336	0.00348	0.00412
	C1	-0.00019	0.00001	0.00111
	C1	0.00016	0.00018	0.00023
	C1	-0.00021	-0.00021	-0.00020
	C1	0.00301	0.00317	0.00411

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7R	**(A1 * B0 * B1 * C0 * C1 * !Y)**	-0.00035	-0.00030	-0.00023
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00051	0.00051	0.00052
	(A1 * B0 * B1 * !C1 * !Y)	-0.00036	-0.00030	-0.00023
	(A1 * B0 * B1 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !C1 * !Y)	0.00051	0.00052	0.00052
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00036	-0.00030	-0.00023
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00051	0.00051	0.00052
	(A1 * !B1 * C0 * C1 * !Y)	-0.00034	-0.00028	-0.00021
	(A1 * !B1 * C0 * C1 * !Y)	-0.00007	-0.00006	-0.00006
	(A1 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * C0 * C1 * !Y)	0.00052	0.00053	0.00053
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00034	-0.00028	-0.00021
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00007	-0.00006	-0.00006
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00052	0.00053	0.00054
	(!A1 * B0 * B1 * !Y)	-0.00046	-0.00046	-0.00046
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	0.00046	0.00046	0.00047
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00046	-0.00046	-0.00045
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00046	0.00046	0.00047
	(!A1 * !B1 * !C1 * Y)	-0.00048	-0.00047	-0.00047
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	0.00001
	(!A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C1 * Y)	0.00047	0.00047	0.00047
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00048	-0.00047	-0.00047
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	0.00047	0.00047	0.00047
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00048	-0.00047	-0.00047
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	0.00047	0.00047	0.00047
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00048	-0.00047	-0.00047
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00003	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00047	0.00047	0.00047

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7R	**(A1 * B0 * B1 * C0 * C1 * !Y)**	0.00034	0.00035	0.00035
	(A1 * B0 * B1 * C0 * C1 * !Y)	0.00006	0.00006	0.00006
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * C0 * C1 * !Y)	-0.00051	-0.00051	-0.00051
	(A1 * B0 * B1 * !C1 * !Y)	0.00035	0.00036	0.00036
	(A1 * B0 * B1 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00051	-0.00051	-0.00051
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00035	0.00036	0.00036
	(A1 * B0 * B1 * !C0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !C0 * C1 * !Y)	-0.00051	-0.00051	-0.00050
	(A1 * !B1 * C0 * C1 * !Y)	0.00034	0.00034	0.00034
	(A1 * !B1 * C0 * C1 * !Y)	0.00006	0.00006	0.00007
	(A1 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * C0 * C1 * !Y)	-0.00052	-0.00052	-0.00051
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * B1 * C0 * C1 * !Y)	0.00006	0.00006	0.00007
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	0.00002	0.00020
	(A1 * !B0 * B1 * C0 * C1 * !Y)	-0.00053	-0.00052	-0.00052
	(!A1 * B0 * B1 * !Y)	0.00046	0.00046	0.00046
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !Y)	-0.00046	-0.00045	-0.00043
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00045	0.00046	0.00046
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * !B1 * C0 * C1 * !Y) + (!A1 * !B0 * C0 * C1 * !Y)	-0.00047	-0.00045	-0.00043
	(!A1 * !B1 * !C1 * Y)	0.00048	0.00049	0.00051
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00002	0.00003
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00045	-0.00043	-0.00040
	(!A1 * !B1 * !C0 * C1 * Y)	0.00048	0.00049	0.00051
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00045	-0.00043	-0.00041
	(!A1 * !B0 * B1 * !C1 * Y)	0.00048	0.00049	0.00051
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00045	-0.00043	-0.00041
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00048	0.00049	0.00051
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00002	0.00003
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * C1 * Y)	-0.00045	-0.00043	-0.00040

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7R	**(A0 * B0 * B1 * C0 * C1 * !Y)**	-0.00031	-0.00027	-0.00021
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00048	0.00049	0.00049
	(A0 * B0 * B1 * !C1 * !Y)	-0.00031	-0.00027	-0.00021
	(A0 * B0 * B1 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * B0 * B1 * !C1 * !Y)	0.00048	0.00049	0.00049
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00031	-0.00027	-0.00021
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00048	0.00049	0.00049
	(A0 * !B1 * C0 * C1 * !Y)	-0.00030	-0.00026	-0.00020
	(A0 * !B1 * C0 * C1 * !Y)	-0.00006	-0.00004	-0.00004
	(A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * C0 * C1 * !Y)	0.00049	0.00049	0.00050
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00030	-0.00026	-0.00020
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00006	-0.00005	-0.00004
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00049	0.00049	0.00050
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00039	-0.00038	-0.00038
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00044	0.00044	0.00044
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00038	-0.00038	-0.00038
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * !C1 * !Y)	0.00044	0.00044	0.00044
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00039	-0.00038	-0.00038
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00044	0.00044	0.00044
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00038	-0.00038	-0.00038
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !B1 * C0 * C1 * !Y)	0.00044	0.00044	0.00044
	(!A0 * !B1 * !C1 * Y)	-0.00054	-0.00053	-0.00053
	(!A0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B1 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00054	-0.00053	-0.00053
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00038	-0.00038	-0.00038
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00044	0.00044	0.00044
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00054	-0.00053	-0.00053
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00054	-0.00053	-0.00053
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7R	**(A0 * B0 * B1 * C0 * C1 * !Y)**	0.00030	0.00030	0.00031
	(A0 * B0 * B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * C0 * C1 * !Y)	-0.00048	-0.00048	-0.00048
	(A0 * B0 * B1 * !C1 * !Y)	0.00031	0.00031	0.00031
	(A0 * B0 * B1 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * B1 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * B1 * !C1 * !Y)	-0.00048	-0.00048	-0.00048
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00031	0.00031	0.00031
	(A0 * B0 * B1 * !C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00048	-0.00048	-0.00048
	(A0 * !B1 * C0 * C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * !B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00006
	(A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * C0 * C1 * !Y)	-0.00049	-0.00049	-0.00048
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * B1 * C0 * C1 * !Y)	0.00004	0.00005	0.00006
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00049	-0.00049	-0.00048
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00038	0.00038	0.00039
	(!A0 * B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * C0 * C1 * !Y)	-0.00044	-0.00043	-0.00040
	(!A0 * B0 * B1 * !C1 * !Y)	0.00038	0.00038	0.00039
	(!A0 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * !C1 * !Y)	-0.00044	-0.00042	-0.00040
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00038	0.00038	0.00039
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * B0 * B1 * !C0 * C1 * !Y)	-0.00044	-0.00042	-0.00040
	(!A0 * !B1 * C0 * C1 * !Y)	0.00038	0.00038	0.00039
	(!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !B1 * C0 * C1 * !Y)	-0.00044	-0.00042	-0.00040
	(!A0 * !B1 * !C1 * Y)	0.00054	0.00054	0.00054
	(!A0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B1 * !C1 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B1 * !C0 * C1 * Y)	0.00054	0.00054	0.00054
	(!A0 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00007	-0.00006	-0.00007
	(!A0 * !B1 * !C0 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00038	0.00038	0.00039
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * B1 * C0 * C1 * !Y)	-0.00044	-0.00042	-0.00040
	(!A0 * !B0 * B1 * !C1 * Y)	0.00054	0.00054	0.00054
	(!A0 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !B0 * B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00053	0.00054	0.00054
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !B0 * B1 * !C0 * C1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7R	**(A0 * A1 * B1 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00051	0.00052	0.00052
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00001	0.00002
	(A0 * A1 * B1 * !C1 * !Y)	0.00051	0.00052	0.00052
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00051	0.00052	0.00052
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00048	0.00049	0.00049
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(A0 * A1 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	0.00048	0.00048	0.00048
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00009	-0.00010	-0.00009
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00048	0.00048	0.00049
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00042	-0.00042	-0.00042
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00043	0.00043	0.00043
	(!A1 * B1 * C0 * C1 * !Y)	-0.00035	-0.00031	-0.00024
	(!A1 * B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * C0 * C1 * !Y)	0.00048	0.00049	0.00051
	(!A1 * !B1 * !C1 * Y)	-0.00046	-0.00046	-0.00046
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C1 * Y)	0.00040	0.00040	0.00041
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00046	-0.00046	-0.00046
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	0.00040	0.00040	0.00041
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00036	-0.00031	-0.00024
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00048	0.00049	0.00051
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00046	-0.00046	-0.00046
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	0.00040	0.00040	0.00041
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00046	-0.00046	-0.00046
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00040	0.00040	0.00041

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7R	**(A0 * A1 * B1 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * C0 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * C0 * C1 * !Y)	-0.00052	-0.00052	-0.00051
	(A0 * A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !C1 * !Y)	-0.00052	-0.00051	-0.00051
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !C0 * C1 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !C0 * C1 * !Y)	-0.00052	-0.00051	-0.00051
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * C0 * C1 * !Y)	-0.00049	-0.00047	-0.00044
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00009	0.00010	0.00010
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00048	-0.00047	-0.00045
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	0.00009	0.00010	0.00009
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !C0 * C1 * !Y)	-0.00048	-0.00047	-0.00045
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00042	0.00042	0.00042
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * !B1 * C0 * C1 * !Y) + (!A0 * !B1 * C0 * C1 * !Y)	-0.00043	-0.00042	-0.00039
	(!A1 * B1 * C0 * C1 * !Y)	0.00035	0.00035	0.00035
	(!A1 * B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * C0 * C1 * !Y)	-0.00048	-0.00048	-0.00048
	(!A1 * !B1 * !C1 * Y)	0.00047	0.00047	0.00049
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00002	0.00003
	(!A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00039	-0.00037	-0.00034
	(!A1 * !B1 * !C0 * C1 * Y)	0.00046	0.00047	0.00049
	(!A1 * !B1 * !C0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * !C0 * C1 * Y)	-0.00039	-0.00037	-0.00035
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00035	0.00035	0.00036
	(!A0 * A1 * B1 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * C1 * !Y)	-0.00048	-0.00048	-0.00048
	(!A0 * A1 * !B1 * !C1 * Y)	0.00047	0.00047	0.00049
	(!A0 * A1 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00039	-0.00037	-0.00035
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00047	0.00047	0.00049
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	0.00001	0.00001	0.00003
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * C1 * Y)	-0.00039	-0.00037	-0.00033

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7R	**(A0 * A1 * B0 * C0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00055	0.00056	0.00056
	(A0 * A1 * B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * B0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C1 * !Y)	0.00055	0.00056	0.00056
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00055	0.00056	0.00056
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00017	-0.00017	-0.00016
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00052	0.00052	0.00052
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00012	-0.00011	-0.00011
	(A0 * A1 * !B0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B0 * !C1 * !Y)	0.00052	0.00052	0.00052
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00052	0.00052	0.00053
	(!A1 * B0 * C0 * C1 * !Y)	-0.00044	-0.00038	-0.00031
	(!A1 * B0 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * C1 * !Y)	0.00051	0.00052	0.00054
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00050	-0.00050	-0.00050
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * C0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * C1 * !Y)	0.00046	0.00046	0.00046
	(!A1 * !B0 * !C1 * Y)	-0.00068	-0.00068	-0.00067
	(!A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * !C1 * Y)	0.00008	0.00008	0.00009
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00068	-0.00068	-0.00067
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * !C0 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00044	-0.00038	-0.00031
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00051	0.00052	0.00054
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00050	-0.00050	-0.00050
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00045	0.00046	0.00046
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00068	-0.00068	-0.00067
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * !B0 * !C1 * Y)	0.00008	0.00008	0.00009
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00068	-0.00068	-0.00067
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7R	**(A0 * A1 * B0 * C0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * C0 * C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * C0 * C1 * !Y)	-0.00056	-0.00056	-0.00055
	(A0 * A1 * B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(A0 * A1 * B0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C1 * !Y)	-0.00056	-0.00055	-0.00055
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !C0 * C1 * !Y)	0.00013	0.00013	0.00013
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !C0 * C1 * !Y)	-0.00055	-0.00055	-0.00055
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * C0 * C1 * !Y)	0.00016	0.00017	0.00017
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00052	-0.00051	-0.00048
	(A0 * A1 * !B0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C1 * !Y)	0.00011	0.00011	0.00012
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B0 * !C1 * !Y)	-0.00052	-0.00050	-0.00047
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	0.00011	0.00012	0.00012
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * !C0 * C1 * !Y)	-0.00052	-0.00050	-0.00047
	(!A1 * B0 * C0 * C1 * !Y)	0.00043	0.00044	0.00044
	(!A1 * B0 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * C1 * !Y)	-0.00051	-0.00051	-0.00051
	(!A1 * !B0 * C0 * C1 * !Y)	0.00050	0.00050	0.00050
	(!A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * C0 * C1 * !Y)	-0.00046	-0.00044	-0.00042
	(!A1 * !B0 * !C1 * Y)	0.00067	0.00068	0.00068
	(!A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C1 * Y)	-0.00007	-0.00007	-0.00006
	(!A1 * !B0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !C0 * C1 * Y)	0.00067	0.00068	0.00068
	(!A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00006
	(!A1 * !B0 * !C0 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00043	0.00043	0.00044
	(!A0 * A1 * B0 * C0 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * C1 * !Y)	-0.00051	-0.00051	-0.00051
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00050	0.00050	0.00050
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * C0 * C1 * !Y)	-0.00046	-0.00044	-0.00041
	(!A0 * A1 * !B0 * !C1 * Y)	0.00067	0.00068	0.00068
	(!A0 * A1 * !B0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * !B0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00067	0.00068	0.00068
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * A1 * !B0 * !C0 * C1 * Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7R	**(A1 * B0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * C1 * !Y)	0.00064	0.00065	0.00065
	(A1 * B0 * B1 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !C1 * !Y)	0.00061	0.00061	0.00061
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C1 * !Y)	0.00064	0.00065	0.00065
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	0.00061	0.00061	0.00061
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00064	0.00064	0.00065
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00061	0.00061	0.00061
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00064	0.00065	0.00065
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1 * B0 * B1 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !C1 * !Y)	0.00061	0.00061	0.00061
	(!A1 * !B1 * !C1 * Y)	-0.00047	-0.00046	-0.00046
	(!A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B1 * !C1 * Y)	0.00041	0.00041	0.00041
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00047	-0.00046	-0.00046
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * B1 * !C1 * Y)	0.00041	0.00041	0.00041
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00047	-0.00046	-0.00046
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B1 * !C1 * Y)	0.00041	0.00041	0.00041
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00047	-0.00046	-0.00046
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00041	0.00041	0.00041

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7R	**(A1 * B0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C1 * !Y)	0.00006	0.00006	0.00007
	(A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C1 * !Y)	-0.00065	-0.00064	-0.00064
	(A1 * B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C1 * !Y)	0.00006	0.00006	0.00006
	(A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !C1 * !Y)	-0.00061	-0.00060	-0.00057
	(A0 * A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C1 * !Y)	0.00006	0.00006	0.00007
	(A0 * A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C1 * !Y)	-0.00064	-0.00064	-0.00063
	(A0 * A1 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C1 * !Y)	-0.00061	-0.00060	-0.00057
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C1 * !Y)	-0.00064	-0.00063	-0.00062
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * B1 * !C1 * !Y)	-0.00061	-0.00060	-0.00057
	(!A1 * B0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A1 * B0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C1 * !Y)	-0.00065	-0.00064	-0.00064
	(!A1 * B0 * B1 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !C1 * !Y)	-0.00061	-0.00060	-0.00058
	(!A1 * !B1 * !C1 * Y)	0.00047	0.00047	0.00049
	(!A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B1 * !C1 * Y)	-0.00039	-0.00037	-0.00034
	(!A1 * !B0 * B1 * !C1 * Y)	0.00047	0.00047	0.00049
	(!A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C1 * Y)	-0.00039	-0.00037	-0.00034
	(!A0 * A1 * !B1 * !C1 * Y)	0.00047	0.00047	0.00049
	(!A0 * A1 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C1 * Y)	-0.00039	-0.00037	-0.00034
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00047	0.00047	0.00049
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * !C1 * Y)	-0.00039	-0.00037	-0.00034

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI222X4H7R	**(A1 * B0 * B1 * C0 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * B1 * C0 * !Y)	0.00073	0.00073	0.00074
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * B1 * !C0 * !Y)	0.00069	0.00070	0.00070
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * C0 * !Y)	0.00072	0.00073	0.00074
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	0.00069	0.00069	0.00070
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00073	0.00073	0.00073
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00069	0.00069	0.00070
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00072	0.00073	0.00074
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1 * B0 * B1 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A1 * B0 * B1 * !C0 * !Y)	0.00069	0.00069	0.00070
	(!A1 * !B1 * !C0 * Y)	-0.00067	-0.00067	-0.00066
	(!A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B1 * !C0 * Y)	0.00007	0.00008	0.00008
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00067	-0.00067	-0.00066
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * B1 * !C0 * Y)	0.00007	0.00008	0.00008
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00067	-0.00067	-0.00066
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * !B1 * !C0 * Y)	0.00007	0.00008	0.00008
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00067	-0.00067	-0.00066
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00007	0.00008	0.00008

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

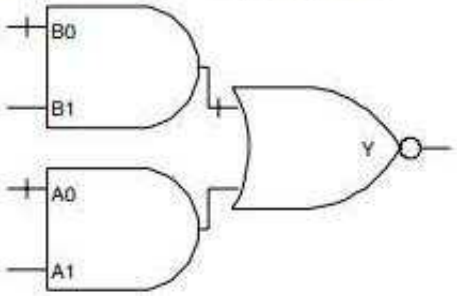
AOI222X4H7R	**(A1 * B0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * C0 * !Y)	-0.00073	-0.00073	-0.00073
	(A1 * B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A1 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * B1 * !C0 * !Y)	-0.00070	-0.00068	-0.00066
	(A0 * A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * C0 * !Y)	-0.00073	-0.00072	-0.00072
	(A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !C0 * !Y)	-0.00070	-0.00068	-0.00065
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * B1 * C0 * !Y)	-0.00073	-0.00072	-0.00071
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * B1 * !C0 * !Y)	-0.00069	-0.00068	-0.00065
	(!A1 * B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * C0 * !Y)	0.00006	0.00007	0.00007
	(!A1 * B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * C0 * !Y)	-0.00073	-0.00073	-0.00072
	(!A1 * B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00004	-0.00003	0.00002
	(!A1 * B0 * B1 * !C0 * !Y)	-0.00070	-0.00068	-0.00065
	(!A1 * !B1 * !C0 * Y)	0.00066	0.00067	0.00067
	(!A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B1 * !C0 * Y)	-0.00008	-0.00008	-0.00007
	(!A1 * !B0 * B1 * !C0 * Y)	0.00066	0.00067	0.00067
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A1 * !B1 * !C0 * Y)	0.00066	0.00067	0.00067
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00066	0.00067	0.00067
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A1 * !B0 * B1 * !C0 * Y)	-0.00008	-0.00008	-0.00007

AOI22X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X0P5H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X0P5H7R	0.00063	0.00071	0.00075	0.00068	0.02126

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X0P5H7R	0.00000	0.11857	0.28639

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X0P5H7R	A0->Y (FR)	0.04560	0.19903	0.64645
	A1->Y (FR)	0.04339	0.19578	0.64527
	B0->Y (FR)	0.03481	0.18816	0.65436
	B1->Y (FR)	0.03700	0.19160	0.65769

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X0P5H7R	A0->Y (RF)	0.03046	0.14240	0.49704
	A1->Y (RF)	0.02969	0.14121	0.50876
	B0->Y (RF)	0.02301	0.13116	0.50136
	B1->Y (RF)	0.02390	0.13251	0.48844

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X0P5H7R	A0	0.00123	0.00126	0.00139
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00011	0.00011	0.00011
	A0	-0.00003	-0.00000	0.00015
	A1	0.00115	0.00119	0.00133
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00007	0.00007	0.00008
	A1	0.00003	0.00006	0.00023
	B0	0.00074	0.00079	0.00109
	B0	-0.00005	-0.00004	-0.00004
	B0	0.00007	0.00007	0.00007
	B0	-0.00006	0.00001	0.00035
	B1	0.00082	0.00088	0.00116
	B1	-0.00005	-0.00004	-0.00004
	B1	0.00011	0.00011	0.00011
	B1	-0.00011	-0.00005	0.00027

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X0P5H7R	A0	-0.00007	-0.00004	0.00011
	A0	0.00013	0.00013	0.00013
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00112	0.00118	0.00134
	A1	-0.00008	-0.00003	0.00021
	A1	0.00013	0.00013	0.00013
	A1	-0.00004	-0.00003	-0.00003
	A1	0.00098	0.00104	0.00128
	B0	-0.00005	0.00001	0.00031
	B0	0.00004	0.00004	0.00005
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00074	0.00080	0.00109
	B1	-0.00006	-0.00002	0.00020
	B1	0.00004	0.00005	0.00005
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00088	0.00093	0.00113

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7R	(A1 * B0 * B1 * !Y)	-0.00010	-0.00008	-0.00006
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00022	0.00023	0.00023
	(!A1 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7R	(A1 * B0 * B1 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !B1 * Y)	0.00013	0.00013	0.00014
	(!A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * Y)	0.00013	0.00013	0.00014
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7R	(A0 * B0 * B1 * !Y)	-0.00011	-0.00009	-0.00006
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00018	0.00019	0.00020
	(!A0 * B0 * B1 * !Y)	-0.00015	-0.00015	-0.00014
	(!A0 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * !B1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7R	(A0 * B0 * B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * B1 * !Y)	0.00014	0.00015	0.00015
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * B0 * !B1 * Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7R	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7R	(A0 * A1 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7R	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	0.00017	0.00017	0.00017

Passive power(pJ) for B1 falling (conditional):

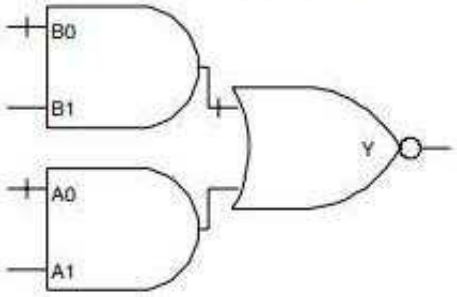
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P5H7R	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !Y)	-0.00000	0.00000	0.00002
	(A0 * A1 * B0 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A1 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	-0.00016	-0.00016	-0.00015

AOI22X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X0P7H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X0P7H7R	0.00069	0.00074	0.00077	0.00072	0.02406

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X0P7H7R	0.00000	0.13363	0.32280

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X0P7H7R	A0->Y (FR)	0.04339	0.19732	0.64838
	A1->Y (FR)	0.04068	0.19331	0.64560
	B0->Y (FR)	0.03202	0.18566	0.65452
	B1->Y (FR)	0.03480	0.18967	0.65824

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X0P7H7R	A0->Y (RF)	0.02894	0.14045	0.49553
	A1->Y (RF)	0.02593	0.13739	0.50580
	B0->Y (RF)	0.02070	0.12821	0.49806
	B1->Y (RF)	0.02220	0.13044	0.48682

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X0P7H7R	A0	0.00134	0.00137	0.00152
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00013	0.00013	0.00013
	A0	-0.00003	-0.00000	0.00016
	A1	0.00122	0.00126	0.00142
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00008	0.00009	0.00009
	A1	-0.00000	0.00004	0.00024
	B0	0.00079	0.00086	0.00120
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00008	0.00008	0.00009
	B0	-0.00007	0.00001	0.00040
	B1	0.00089	0.00095	0.00126
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00013	0.00013	0.00013
	B1	-0.00012	-0.00005	0.00030

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X0P7H7R	A0	-0.00008	-0.00005	0.00012
	A0	0.00014	0.00015	0.00015
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00120	0.00128	0.00145
	A1	-0.00008	-0.00003	0.00024
	A1	0.00015	0.00015	0.00015
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00103	0.00113	0.00141
	B0	-0.00008	-0.00001	0.00035
	B0	0.00005	0.00005	0.00005
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00077	0.00085	0.00119
	B1	-0.00007	-0.00002	0.00022
	B1	0.00005	0.00005	0.00005
	B1	-0.00008	-0.00008	-0.00008
	B1	0.00093	0.00100	0.00123

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7R	(A1 * B0 * B1 * !Y)	-0.00012	-0.00010	-0.00007
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7R	(A1 * B0 * B1 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * B0 * !B1 * Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7R	(A0 * B0 * B1 * !Y)	-0.00010	-0.00009	-0.00007
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7R	(A0 * B0 * B1 * !Y)	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * B0 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7R	(A0 * A1 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7R	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7R	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for B1 falling (conditional):

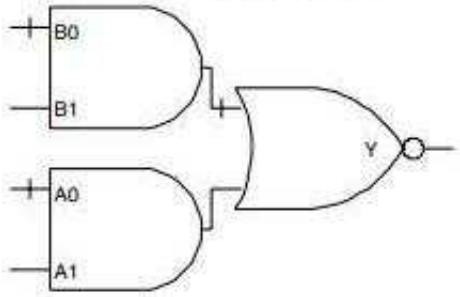
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X0P7H7R	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A1 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A1 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	-0.00017	-0.00017	-0.00016

AOI22X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X1H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X1H7R	0.00074	0.00074	0.00076	0.00082	0.02865

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X1H7R	0.00000	0.15539	0.37272

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X1H7R	A0->Y (FR)	0.03930	0.19374	0.64916
	A1->Y (FR)	0.03601	0.18919	0.64442
	B0->Y (FR)	0.03078	0.18606	0.65847
	B1->Y (FR)	0.02833	0.18236	0.65495

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X1H7R	A0->Y (RF)	0.02656	0.13931	0.50082
	A1->Y (RF)	0.02458	0.13645	0.50910
	B0->Y (RF)	0.01972	0.12906	0.49321
	B1->Y (RF)	0.01848	0.12679	0.50171

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X1H7R	A0	0.00145	0.00149	0.00166
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00015	0.00015	0.00015
	A0	-0.00005	-0.00001	0.00018
	A1	0.00130	0.00134	0.00155
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00010	0.00010	0.00010
	A1	-0.00002	0.00003	0.00028
	B0	0.00093	0.00101	0.00139
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00015	0.00015	0.00015
	B0	-0.00014	-0.00007	0.00035
	B1	0.00084	0.00091	0.00132
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00010	0.00010	0.00010
	B1	-0.00009	0.00000	0.00048

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X1H7R	A0	-0.00010	-0.00006	0.00014
	A0	0.00018	0.00018	0.00018
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00133	0.00140	0.00160
	A1	-0.00009	-0.00003	0.00030
	A1	0.00018	0.00018	0.00018
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00113	0.00122	0.00156
	B0	-0.00010	-0.00004	0.00027
	B0	0.00006	0.00006	0.00007
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00099	0.00107	0.00135
	B1	-0.00009	-0.00002	0.00042
	B1	0.00006	0.00006	0.00007
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00079	0.00090	0.00132

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7R	(A1 * B0 * B1 * !Y)	-0.00014	-0.00011	-0.00008
	(A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7R	(A1 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !Y)	-0.00000	-0.00001	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B1 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * B1 * Y)	0.00018	0.00018	0.00019
	(!A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7R	(A0 * B0 * B1 * !Y)	-0.00012	-0.00010	-0.00008
	(A0 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * B0 * B1 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * !B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B1 * Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7R	(A0 * B0 * B1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * B1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B1 * Y)	0.00000	0.00001	0.00000
	(!A0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * B1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * Y)	-0.00005	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7R	(A0 * A1 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7R	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	-0.00029	-0.00028	-0.00028
	(!A1 * !B1 * Y)	0.00020	0.00021	0.00021
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A1 * !B1 * Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * Y)	-0.00019	-0.00019	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7R	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

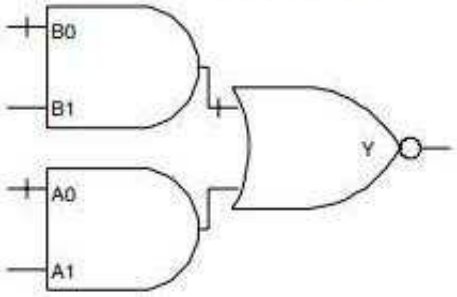
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1H7R	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00027	-0.00026	-0.00025
	(!A1 * !B0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003

AOI22X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X1P4H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X1P4H7R	0.00079	0.00080	0.00089	0.00081	0.03266

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X1P4H7R	0.00000	0.17634	0.42224

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X1P4H7R	A0->Y (FR)	0.03722	0.19192	0.64884
	A1->Y (FR)	0.03386	0.18729	0.64574
	B0->Y (FR)	0.02658	0.18085	0.65588
	B1->Y (FR)	0.02912	0.18469	0.65899

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X1P4H7R	A0->Y (RF)	0.02355	0.13602	0.49842
	A1->Y (RF)	0.02159	0.13312	0.50568
	B0->Y (RF)	0.01716	0.12466	0.49911
	B1->Y (RF)	0.01847	0.12716	0.49124

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X1P4H7R	A0	0.00159	0.00162	0.00182
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00017	0.00017	0.00017
	A0	-0.00007	-0.00003	0.00019
	A1	0.00141	0.00146	0.00171
	A1	-0.00020	-0.00020	-0.00020
	A1	0.00011	0.00012	0.00012
	A1	-0.00004	0.00002	0.00030
	B0	0.00092	0.00100	0.00147
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00011	0.00012	0.00012
	B0	-0.00010	0.00001	0.00056
	B1	0.00102	0.00112	0.00154
	B1	-0.00007	-0.00007	-0.00005
	B1	0.00017	0.00017	0.00017
	B1	-0.00015	-0.00006	0.00041

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X1P4H7R	A0	-0.00011	-0.00007	0.00016
	A0	0.00020	0.00021	0.00021
	A0	-0.00011	-0.00012	-0.00011
	A0	0.00144	0.00154	0.00177
	A1	-0.00010	-0.00004	0.00034
	A1	0.00020	0.00021	0.00021
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00125	0.00134	0.00173
	B0	-0.00011	-0.00003	0.00049
	B0	0.00007	0.00007	0.00009
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00087	0.00098	0.00146
	B1	-0.00011	-0.00005	0.00031
	B1	0.00007	0.00007	0.00008
	B1	-0.00011	-0.00011	-0.00011
	B1	0.00106	0.00117	0.00150

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7R	(A1 * B0 * B1 * !Y)	-0.00015	-0.00013	-0.00010
	(A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00024	0.00025	0.00026
	(!A1 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00021	0.00022	0.00022
	(!A1 * B0 * !B1 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * Y)	-0.00000	-0.00001	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7R	(A1 * B0 * B1 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * B0 * !B1 * Y)	0.00020	0.00020	0.00021
	(!A1 * B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7R	(A0 * B0 * B1 * !Y)	-0.00014	-0.00012	-0.00009
	(A0 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * B1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * B0 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7R	(A0 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * B1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * B0 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7R	(A0 * A1 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !Y)	0.00029	0.00030	0.00030
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	0.00028	0.00028	0.00028
	(!A1 * !B1 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	-0.00030	-0.00029	-0.00029
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7R	(A0 * A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !Y)	-0.00030	-0.00029	-0.00029
	(A0 * A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	-0.00028	-0.00027	-0.00026
	(!A1 * !B1 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * Y)	0.00029	0.00029	0.00030
	(!A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7R	(A0 * A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	0.00030	0.00030	0.00031
	(!A1 * !B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for B1 falling (conditional):

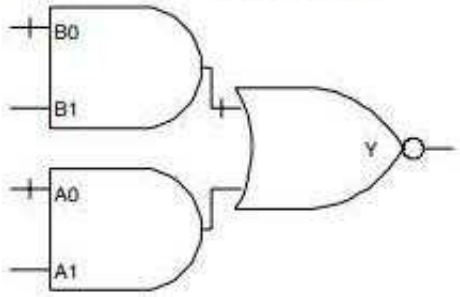
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X1P4H7R	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00032	-0.00032	-0.00031
	(A0 * A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B0 * Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A1 * !B0 * Y)	0.00022	0.00023	0.00023
	(!A0 * A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	-0.00021	-0.00020	-0.00019

AOI22X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X2H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X2H7R	0.00130	0.00146	0.00142	0.00128	0.04261

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X2H7R	0.00000	0.23715	0.57277

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X2H7R	A0->Y (FR)	0.02884	0.18316	0.65541
	A1->Y (FR)	0.03258	0.18752	0.65819
	B0->Y (FR)	0.04104	0.19460	0.64795
	B1->Y (FR)	0.03710	0.19007	0.64452

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X2H7R	A0->Y (RF)	0.01883	0.12677	0.50098
	A1->Y (RF)	0.02084	0.12929	0.48901
	B0->Y (RF)	0.02728	0.13894	0.49728
	B1->Y (RF)	0.02373	0.13573	0.50832

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X2H7R	A0	0.00144	0.00156	0.00222
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00014	0.00015	0.00015
	A0	-0.00013	0.00002	0.00078
	A1	0.00166	0.00177	0.00236
	A1	-0.00009	-0.00009	-0.00007
	A1	0.00022	0.00022	0.00023
	A1	-0.00023	-0.00010	0.00056
	B0	0.00243	0.00248	0.00276
	B0	-0.00027	-0.00025	-0.00024
	B0	0.00022	0.00022	0.00022
	B0	-0.00009	-0.00002	0.00031
	B1	0.00219	0.00226	0.00261
	B1	-0.00025	-0.00024	-0.00021
	B1	0.00015	0.00015	0.00015
	B1	0.00000	0.00008	0.00049

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X2H7R	A0	-0.00011	0.00001	0.00071
	A0	0.00009	0.00009	0.00010
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00143	0.00158	0.00222
	A1	-0.00013	-0.00003	0.00046
	A1	0.00009	0.00009	0.00009
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00177	0.00189	0.00233
	B0	-0.00016	-0.00009	0.00023
	B0	0.00024	0.00025	0.00027
	B0	-0.00015	-0.00015	-0.00015
	B0	0.00221	0.00234	0.00267
	B1	-0.00015	-0.00005	0.00047
	B1	0.00025	0.00026	0.00026
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00189	0.00204	0.00257

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7R	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00045	0.00045	0.00045
	(!A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00043	0.00043	0.00043
	(!A1 * !B1 * Y)	-0.00041	-0.00041	-0.00041
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B1 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * B1 * Y)	-0.00041	-0.00041	-0.00041
	(!A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * B1 * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7R	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	-0.00045	-0.00045	-0.00045
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00043	-0.00042	-0.00041
	(!A1 * !B1 * Y)	0.00041	0.00041	0.00041
	(!A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * B1 * Y)	0.00041	0.00041	0.00041
	(!A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7R	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !Y)	0.00054	0.00055	0.00055
	(!A0 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * B1 * !Y)	0.00053	0.00053	0.00053
	(!A0 * !B1 * Y)	-0.00036	-0.00036	-0.00036
	(!A0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * Y)	0.00032	0.00033	0.00033
	(!A0 * !B0 * B1 * Y)	-0.00036	-0.00036	-0.00036
	(!A0 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * Y)	0.00032	0.00033	0.00033

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7R	(A0 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !Y)	-0.00055	-0.00054	-0.00054
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * B1 * !Y)	-0.00053	-0.00052	-0.00050
	(!A0 * !B1 * Y)	0.00036	0.00037	0.00038
	(!A0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * Y)	-0.00032	-0.00031	-0.00030
	(!A0 * !B0 * B1 * Y)	0.00036	0.00037	0.00038
	(!A0 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * Y)	-0.00032	-0.00031	-0.00030

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7R	(A0 * A1 * B1 * !Y)	-0.00019	-0.00016	-0.00012
	(A0 * A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * !Y)	0.00045	0.00046	0.00047
	(A0 * A1 * !B1 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * !Y)	0.00041	0.00041	0.00041
	(A0 * !A1 * !B1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * Y)	0.00036	0.00036	0.00036
	(!A0 * !B1 * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * Y)	0.00036	0.00036	0.00037

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7R	(A0 * A1 * B1 * !Y)	0.00019	0.00019	0.00019
	(A0 * A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * !Y)	-0.00045	-0.00045	-0.00045
	(A0 * A1 * !B1 * !Y)	0.00024	0.00025	0.00025
	(A0 * A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * !Y)	-0.00041	-0.00040	-0.00039
	(A0 * !A1 * !B1 * Y)	0.00031	0.00032	0.00034
	(A0 * !A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * Y)	-0.00035	-0.00034	-0.00033
	(!A0 * !B1 * Y)	0.00031	0.00032	0.00034
	(!A0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B1 * Y)	-0.00035	-0.00034	-0.00033

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7R	(A0 * A1 * B0 * !Y)	-0.00020	-0.00017	-0.00012
	(A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00035	0.00036	0.00038
	(A0 * A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * !Y)	0.00031	0.00032	0.00032
	(A0 * !A1 * !B0 * Y)	-0.00036	-0.00036	-0.00035
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * !B0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !B0 * Y)	-0.00036	-0.00036	-0.00035
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B1 falling (conditional):

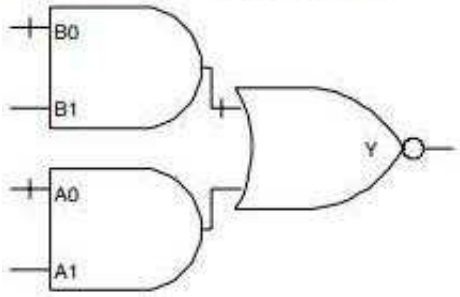
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X2H7R	(A0 * A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00035	-0.00035	-0.00035
	(A0 * A1 * !B0 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * !Y)	-0.00032	-0.00031	-0.00029
	(A0 * !A1 * !B0 * Y)	0.00035	0.00036	0.00036
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !B0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * Y)	0.00036	0.00036	0.00036
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * Y)	-0.00010	-0.00010	-0.00010

AOI22X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X3H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X3H7R	0.00172	0.00153	0.00152	0.00167	0.06005

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X3H7R	0.00000	0.32770	0.78785

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X3H7R	A0->Y (FR)	0.02840	0.18397	0.65931
	A1->Y (FR)	0.02462	0.17969	0.65759
	B0->Y (FR)	0.03198	0.18585	0.64489
	B1->Y (FR)	0.03578	0.19021	0.64823

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X3H7R	A0->Y (RF)	0.01791	0.12596	0.48910
	A1->Y (RF)	0.01576	0.12270	0.49748
	B0->Y (RF)	0.02015	0.13095	0.50421
	B1->Y (RF)	0.02227	0.13399	0.49654

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X3H7R	A0	0.00205	0.00222	0.00303
	A0	-0.00013	-0.00013	-0.00011
	A0	0.00032	0.00032	0.00032
	A0	-0.00029	-0.00011	0.00078
	A1	0.00178	0.00193	0.00285
	A1	-0.00013	-0.00013	-0.00012
	A1	0.00021	0.00021	0.00021
	A1	-0.00018	0.00002	0.00109
	B0	0.00265	0.00278	0.00329
	B0	-0.00036	-0.00036	-0.00035
	B0	0.00021	0.00021	0.00021
	B0	-0.00007	0.00005	0.00063
	B1	0.00300	0.00308	0.00347
	B1	-0.00036	-0.00036	-0.00036
	B1	0.00032	0.00032	0.00032
	B1	-0.00015	-0.00007	0.00038

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X3H7R	A0	-0.00019	-0.00006	0.00063
	A0	0.00013	0.00013	0.00014
	A0	-0.00021	-0.00021	-0.00021
	A0	0.00223	0.00234	0.00297
	A1	-0.00017	0.00000	0.00100
	A1	0.00013	0.00013	0.00016
	A1	-0.00011	-0.00010	-0.00009
	A1	0.00175	0.00194	0.00287
	B0	-0.00019	-0.00007	0.00067
	B0	0.00036	0.00036	0.00039
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00240	0.00256	0.00331
	B1	-0.00021	-0.00013	0.00032
	B1	0.00037	0.00038	0.00038
	B1	-0.00021	-0.00021	-0.00021
	B1	0.00278	0.00295	0.00340

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7R	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !Y)	0.00063	0.00064	0.00064
	(!A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	0.00061	0.00061	0.00061
	(!A1 * B0 * !B1 * Y)	-0.00044	-0.00044	-0.00044
	(!A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !B1 * Y)	0.00039	0.00039	0.00039
	(!A1 * !B0 * Y)	-0.00044	-0.00044	-0.00044
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00039	0.00039	0.00039

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7R	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	-0.00064	-0.00063	-0.00063
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00061	-0.00060	-0.00058
	(!A1 * B0 * !B1 * Y)	0.00044	0.00045	0.00047
	(!A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !B1 * Y)	-0.00037	-0.00036	-0.00033
	(!A1 * !B0 * Y)	0.00044	0.00045	0.00047
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00037	-0.00036	-0.00033

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7R	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !Y)	0.00052	0.00053	0.00053
	(!A0 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * B0 * B1 * !Y)	0.00050	0.00050	0.00050
	(!A0 * B0 * !B1 * Y)	-0.00050	-0.00050	-0.00049
	(!A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * B0 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	-0.00050	-0.00050	-0.00049
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7R	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !Y)	-0.00053	-0.00052	-0.00052
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * B1 * !Y)	-0.00050	-0.00049	-0.00046
	(!A0 * B0 * !B1 * Y)	0.00049	0.00050	0.00050
	(!A0 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * Y)	0.00049	0.00050	0.00050
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7R	(A0 * A1 * B1 * !Y)	-0.00026	-0.00022	-0.00017
	(A0 * A1 * B1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * !Y)	0.00041	0.00042	0.00043
	(A0 * A1 * !B1 * !Y)	-0.00034	-0.00034	-0.00033
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * !B1 * !Y)	0.00036	0.00036	0.00036
	(!A1 * !B1 * Y)	-0.00045	-0.00045	-0.00045
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B1 * Y)	0.00009	0.00009	0.00010
	(!A0 * A1 * !B1 * Y)	-0.00045	-0.00045	-0.00045
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7R	(A0 * A1 * B1 * !Y)	0.00026	0.00027	0.00027
	(A0 * A1 * B1 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * !Y)	-0.00041	-0.00041	-0.00040
	(A0 * A1 * !B1 * !Y)	0.00033	0.00034	0.00034
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B1 * !Y)	-0.00036	-0.00035	-0.00033
	(!A1 * !B1 * Y)	0.00045	0.00045	0.00045
	(!A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * A1 * !B1 * Y)	0.00045	0.00045	0.00045
	(!A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7R	(A0 * A1 * B0 * !Y)	-0.00026	-0.00022	-0.00017
	(A0 * A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00051	0.00052	0.00054
	(A0 * A1 * !B0 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * !Y)	0.00046	0.00047	0.00047
	(!A1 * !B0 * Y)	-0.00039	-0.00039	-0.00039
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00041	0.00042	0.00042
	(!A0 * A1 * !B0 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * Y)	0.00041	0.00042	0.00042

Passive power(pJ) for B1 falling (conditional):

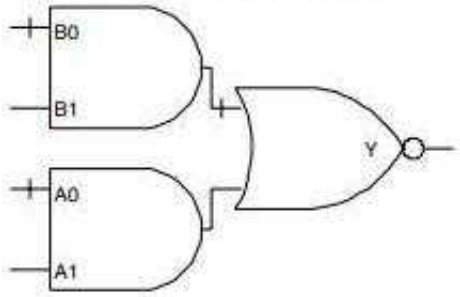
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X3H7R	(A0 * A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00051	-0.00051	-0.00051
	(A0 * A1 * !B0 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * !Y)	-0.00047	-0.00046	-0.00044
	(!A1 * !B0 * Y)	0.00039	0.00040	0.00041
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00040	-0.00038	-0.00035
	(!A0 * A1 * !B0 * Y)	0.00039	0.00040	0.00041
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * Y)	-0.00040	-0.00038	-0.00035

AOI22X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X4H7R	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X4H7R	0.00272	0.00290	0.00257	0.00286	0.08488

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X4H7R	0.00000	0.47430	1.14555

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X4H7R	A0->Y (FR)	0.02708	0.18124	0.65509
	A1->Y (FR)	0.03067	0.18577	0.65860
	B0->Y (FR)	0.03397	0.18660	0.64186
	B1->Y (FR)	0.03812	0.19155	0.64619

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X4H7R	A0->Y (RF)	0.01755	0.12507	0.50053
	A1->Y (RF)	0.01946	0.12743	0.48809
	B0->Y (RF)	0.02170	0.13304	0.50651
	B1->Y (RF)	0.02530	0.13640	0.49529

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X4H7R	A0	0.00296	0.00321	0.00457
	A0	-0.00018	-0.00018	-0.00017
	A0	0.00029	0.00029	0.00030
	A0	-0.00026	0.00005	0.00163
	A1	0.00336	0.00361	0.00481
	A1	-0.00018	-0.00018	-0.00017
	A1	0.00044	0.00044	0.00045
	A1	-0.00044	-0.00017	0.00118
	B0	0.00427	0.00442	0.00520
	B0	-0.00049	-0.00049	-0.00048
	B0	0.00029	0.00030	0.00031
	B0	-0.00012	0.00005	0.00095
	B1	0.00472	0.00487	0.00549
	B1	-0.00049	-0.00049	-0.00048
	B1	0.00044	0.00044	0.00045
	B1	-0.00031	-0.00017	0.00053

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X4H7R	A0	-0.00026	0.00000	0.00144
	A0	0.00017	0.00018	0.00018
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00294	0.00321	0.00454
	A1	-0.00028	-0.00008	0.00095
	A1	0.00017	0.00018	0.00018
	A1	-0.00029	-0.00029	-0.00029
	A1	0.00355	0.00378	0.00472
	B0	-0.00029	-0.00010	0.00100
	B0	0.00051	0.00051	0.00052
	B0	-0.00015	-0.00015	-0.00013
	B0	0.00378	0.00411	0.00522
	B1	-0.00032	-0.00018	0.00051
	B1	0.00051	0.00051	0.00051
	B1	-0.00030	-0.00029	-0.00029
	B1	0.00447	0.00473	0.00543

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7R	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * B1 * !Y)	0.00091	0.00092	0.00092
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00007	-0.00007	-0.00006
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00004
	(!A1 * B0 * B1 * !Y)	0.00088	0.00088	0.00089
	(!A1 * B0 * !B1 * Y)	-0.00085	-0.00085	-0.00084
	(!A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * Y)	0.00008	0.00008	0.00008
	(!A1 * B0 * !B1 * Y)	0.00011	0.00011	0.00012
	(!A1 * !B0 * Y)	-0.00085	-0.00085	-0.00084
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * Y)	0.00011	0.00011	0.00012

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7R	(A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !Y)	-0.00092	-0.00092	-0.00090
	(!A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00006	0.00007	0.00007
	(!A1 * B0 * B1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * B0 * B1 * !Y)	-0.00088	-0.00086	-0.00083
	(!A1 * B0 * !B1 * Y)	0.00084	0.00085	0.00085
	(!A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * B0 * !B1 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * Y)	0.00084	0.00085	0.00085
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * Y)	-0.00011	-0.00011	-0.00011

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7R	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * B1 * !Y)	0.00107	0.00108	0.00108
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * B0 * B1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * B0 * B1 * !Y)	0.00103	0.00104	0.00105
	(!A0 * B0 * !B1 * Y)	-0.00074	-0.00073	-0.00073
	(!A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !B1 * Y)	0.00062	0.00064	0.00064
	(!A0 * !B0 * Y)	-0.00074	-0.00073	-0.00073
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	0.00063	0.00064	0.00064

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7R	(A0 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00007	0.00007	0.00007
	(A0 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !Y)	-0.00108	-0.00107	-0.00106
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * B0 * B1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * B0 * B1 * !Y)	-0.00104	-0.00103	-0.00101
	(!A0 * B0 * !B1 * Y)	0.00074	0.00075	0.00077
	(!A0 * B0 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !B1 * Y)	-0.00062	-0.00060	-0.00055
	(!A0 * !B0 * Y)	0.00074	0.00075	0.00077
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	-0.00062	-0.00059	-0.00055

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7R	(A0 * A1 * B1 * !Y)	-0.00039	-0.00033	-0.00025
	(A0 * A1 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * !Y)	0.00071	0.00072	0.00075
	(A0 * A1 * !B1 * !Y)	-0.00051	-0.00051	-0.00050
	(A0 * A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * !B1 * !Y)	0.00063	0.00064	0.00065
	(A0 * !A1 * !B1 * Y)	-0.00069	-0.00069	-0.00068
	(A0 * !A1 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * !B1 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B1 * Y)	-0.00069	-0.00069	-0.00068
	(!A0 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !B1 * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7R	(A0 * A1 * B1 * !Y)	0.00039	0.00039	0.00040
	(A0 * A1 * B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * B1 * !Y)	-0.00070	-0.00070	-0.00070
	(A0 * A1 * !B1 * !Y)	0.00050	0.00051	0.00051
	(A0 * A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * !B1 * !Y)	-0.00065	-0.00062	-0.00059
	(A0 * !A1 * !B1 * Y)	0.00068	0.00069	0.00069
	(A0 * !A1 * !B1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B1 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * !B1 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !B1 * Y)	0.00068	0.00069	0.00069
	(!A0 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !B1 * Y)	-0.00023	-0.00022	-0.00022

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7R	(A0 * A1 * B0 * !Y)	-0.00038	-0.00032	-0.00024
	(A0 * A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B0 * !Y)	0.00093	0.00094	0.00097
	(A0 * A1 * !B0 * !Y)	-0.00048	-0.00048	-0.00047
	(A0 * A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * !B0 * !Y)	0.00087	0.00087	0.00087
	(A0 * !A1 * !B0 * Y)	-0.00062	-0.00062	-0.00062
	(A0 * !A1 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B0 * Y)	0.00074	0.00075	0.00075
	(!A0 * !B0 * Y)	-0.00062	-0.00062	-0.00062
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * Y)	0.00075	0.00075	0.00076

Passive power(pJ) for B1 falling (conditional):

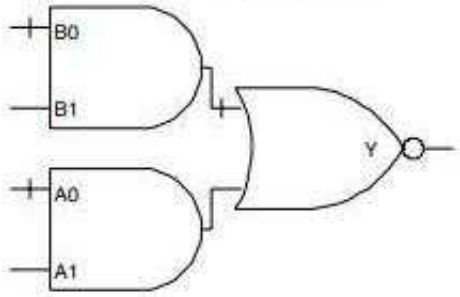
Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X4H7R	(A0 * A1 * B0 * !Y)	0.00037	0.00038	0.00038
	(A0 * A1 * B0 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00093	-0.00093	-0.00092
	(A0 * A1 * !B0 * !Y)	0.00047	0.00048	0.00048
	(A0 * A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B0 * !Y)	-0.00087	-0.00085	-0.00082
	(A0 * !A1 * !B0 * Y)	0.00063	0.00064	0.00067
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !B0 * Y)	-0.00072	-0.00071	-0.00068
	(!A0 * !B0 * Y)	0.00063	0.00064	0.00067
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * Y)	-0.00072	-0.00071	-0.00068

AOI22X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI22 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	x	0	x	1
0	x	1	0	1
x	x	1	1	0
1	0	0	x	1
1	0	1	0	1
1	1	x	x	0

Footprint

Cell Name	Area
AOI22X6H7R	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	Y
AOI22X6H7R	0.00321	0.00335	0.00312	0.00328	0.11951

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI22X6H7R	0.00000	0.65539	1.57569

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X6H7R	A0->Y (FR)	0.02312	0.17791	0.65677
	A1->Y (FR)	0.02657	0.18227	0.65948
	B0->Y (FR)	0.03004	0.18360	0.64426
	B1->Y (FR)	0.03381	0.18815	0.64860

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI22X6H7R	A0->Y (RF)	0.01479	0.12113	0.49614
	A1->Y (RF)	0.01664	0.12410	0.48855
	B0->Y (RF)	0.02026	0.12992	0.50253
	B1->Y (RF)	0.02219	0.13299	0.49474

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X6H7R	A0	0.00357	0.00390	0.00580
	A0	-0.00027	-0.00026	-0.00024
	A0	0.00036	0.00042	0.00043
	A0	-0.00036	0.00005	0.00226
	A1	0.00413	0.00443	0.00608
	A1	-0.00027	-0.00026	-0.00020
	A1	0.00063	0.00064	0.00064
	A1	-0.00054	-0.00019	0.00165
	B0	0.00532	0.00553	0.00662
	B0	-0.00073	-0.00072	-0.00072
	B0	0.00042	0.00042	0.00043
	B0	-0.00019	0.00004	0.00129
	B1	0.00592	0.00610	0.00693
	B1	-0.00078	-0.00072	-0.00072
	B1	0.00064	0.00064	0.00064
	B1	-0.00038	-0.00020	0.00075

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI22X6H7R	A0	-0.00033	0.00002	0.00208
	A0	0.00026	0.00027	0.00032
	A0	-0.00021	-0.00021	-0.00019
	A0	0.00355	0.00392	0.00582
	A1	-0.00036	-0.00010	0.00135
	A1	0.00026	0.00027	0.00029
	A1	-0.00043	-0.00042	-0.00042
	A1	0.00431	0.00465	0.00597
	B0	-0.00040	-0.00014	0.00137
	B0	0.00074	0.00075	0.00076
	B0	-0.00021	-0.00021	-0.00020
	B0	0.00468	0.00514	0.00669
	B1	-0.00043	-0.00025	0.00068
	B1	0.00072	0.00072	0.00078
	B1	-0.00043	-0.00042	-0.00042
	B1	0.00556	0.00590	0.00685

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7R	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	-0.00010	-0.00010	-0.00010
	(A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !Y)	0.00107	0.00108	0.00108
	(!A1 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * B1 * !Y)	0.00102	0.00103	0.00103
	(!A1 * B0 * !B1 * Y)	-0.00103	-0.00102	-0.00101
	(!A1 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !B1 * Y)	0.00010	0.00011	0.00011
	(!A1 * B0 * !B1 * Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * Y)	-0.00103	-0.00102	-0.00101
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7R	(A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !Y)	0.00010	0.00011	0.00011
	(A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * B1 * !Y)	-0.00108	-0.00107	-0.00107
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	0.00009	0.00009	0.00009
	(!A1 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * B1 * !Y)	-0.00103	-0.00100	-0.00095
	(!A1 * B0 * !B1 * Y)	0.00101	0.00102	0.00103
	(!A1 * B0 * !B1 * Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * !B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * B0 * !B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * Y)	0.00101	0.00102	0.00103
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7R	(A0 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !Y)	0.00122	0.00122	0.00123
	(!A0 * B0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * B0 * B1 * !Y)	0.00005	0.00005	0.00006
	(!A0 * B0 * B1 * !Y)	0.00117	0.00117	0.00117
	(!A0 * B0 * !B1 * Y)	-0.00086	-0.00085	-0.00085
	(!A0 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !B1 * Y)	0.00003	0.00003	0.00004
	(!A0 * B0 * !B1 * Y)	0.00075	0.00076	0.00076
	(!A0 * !B0 * Y)	-0.00085	-0.00085	-0.00085
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * Y)	0.00076	0.00076	0.00076

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7R	(A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !Y)	0.00010	0.00010	0.00010
	(A0 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !Y)	-0.00123	-0.00122	-0.00120
	(!A0 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * B1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * B0 * B1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * B0 * B1 * !Y)	-0.00117	-0.00114	-0.00110
	(!A0 * B0 * !B1 * Y)	0.00086	0.00087	0.00090
	(!A0 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * B0 * !B1 * Y)	-0.00073	-0.00070	-0.00065
	(!A0 * !B0 * Y)	0.00086	0.00087	0.00090
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !B0 * Y)	-0.00073	-0.00070	-0.00065

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7R	(A0 * A1 * B1 * !Y)	-0.00054	-0.00047	-0.00035
	(A0 * A1 * B1 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * !Y)	0.00081	0.00083	0.00087
	(A0 * A1 * !B1 * !Y)	-0.00070	-0.00070	-0.00069
	(A0 * A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B1 * !Y)	0.00072	0.00073	0.00073
	(A0 * !A1 * !B1 * Y)	-0.00092	-0.00092	-0.00091
	(A0 * !A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * Y)	0.00010	0.00011	0.00011
	(A0 * !A1 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B1 * Y)	-0.00092	-0.00092	-0.00091
	(!A0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B1 * Y)	0.00010	0.00011	0.00011
	(!A0 * !B1 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7R	(A0 * A1 * B1 * !Y)	0.00055	0.00055	0.00056
	(A0 * A1 * B1 * !Y)	0.00007	0.00007	0.00008
	(A0 * A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B1 * !Y)	-0.00081	-0.00081	-0.00080
	(A0 * A1 * !B1 * !Y)	0.00069	0.00070	0.00070
	(A0 * A1 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B1 * !Y)	-0.00073	-0.00070	-0.00066
	(A0 * !A1 * !B1 * Y)	0.00092	0.00092	0.00092
	(A0 * !A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * !B1 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !B1 * Y)	0.00092	0.00092	0.00092
	(!A0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !B1 * Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7R	(A0 * A1 * B0 * !Y)	-0.00050	-0.00043	-0.00033
	(A0 * A1 * B0 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !Y)	0.00103	0.00105	0.00106
	(A0 * A1 * !B0 * !Y)	-0.00063	-0.00063	-0.00062
	(A0 * A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * !B0 * !Y)	0.00094	0.00095	0.00096
	(A0 * !A1 * !B0 * Y)	-0.00077	-0.00077	-0.00076
	(A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B0 * Y)	0.00083	0.00084	0.00085
	(!A0 * !B0 * Y)	-0.00077	-0.00077	-0.00076
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	0.00083	0.00084	0.00085

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI22X6H7R	(A0 * A1 * B0 * !Y)	0.00051	0.00051	0.00051
	(A0 * A1 * B0 * !Y)	0.00006	0.00006	0.00007
	(A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !Y)	-0.00104	-0.00103	-0.00103
	(A0 * A1 * !B0 * !Y)	0.00062	0.00063	0.00063
	(A0 * A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * !B0 * !Y)	-0.00095	-0.00093	-0.00090
	(A0 * !A1 * !B0 * Y)	0.00078	0.00079	0.00081
	(A0 * !A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B0 * Y)	-0.00081	-0.00078	-0.00072
	(!A0 * !B0 * Y)	0.00078	0.00079	0.00081
	(!A0 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	-0.00081	-0.00078	-0.00072

AOI2BB1X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X0P5H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X0P5H7R	0.00075	0.00069	0.00073	0.02276

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X0P5H7R	0.00000	0.21727	0.32515

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X0P5H7R	A0->YN (RR)	0.04700	0.18434	0.51829
	A1->YN (RR)	0.04516	0.18027	0.51013
	B0->YN (FR)	0.02897	0.18867	0.67409

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X0P5H7R	A0->YN (FF)	0.05561	0.13389	0.32297
	A1->YN (FF)	0.05167	0.13250	0.32472
	B0->YN (RF)	0.01350	0.09101	0.39197

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7R	A0	0.00057	0.00067	0.00096
	A0	-0.00000	-0.00000	0.00000
	A0	0.00000	0.00000	0.00000
	A0	0.00106	0.00115	0.00144
	A1	0.00059	0.00069	0.00103
	A1	-0.00005	-0.00004	-0.00003
	A1	-0.00000	0.00000	0.00000
	A1	0.00094	0.00104	0.00137
	B0	0.00053	0.00060	0.00096
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00003	0.00003	0.00004
	B0	-0.00004	0.00003	0.00038

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7R	A0	0.00110	0.00118	0.00142
	A0	0.00000	0.00000	0.00001
	A0	-0.00000	-0.00000	0.00000
	A0	0.00059	0.00067	0.00092
	A1	0.00094	0.00106	0.00140
	A1	0.00003	0.00004	0.00005
	A1	-0.00000	-0.00000	0.00000
	A1	0.00059	0.00069	0.00105
	B0	-0.00007	-0.00001	0.00034
	B0	0.00002	0.00002	0.00003
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00048	0.00056	0.00092

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7R	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00025	0.00025	0.00025
	(!A1 * B0 * !YN)	-0.00000	0.00007	0.00035
	(!A1 * B0 * !YN)	0.00007	0.00007	0.00008
	(!A1 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * !YN)	0.00080	0.00088	0.00115

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7R	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * !YN)	0.00098	0.00105	0.00128
	(!A1 * B0 * !YN)	-0.00007	-0.00007	-0.00007
	(!A1 * B0 * !YN)	0.00004	0.00004	0.00004
	(!A1 * B0 * !YN)	0.00017	0.00023	0.00047

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7R	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00026	0.00026	0.00026
	(!A0 * B0 * !YN)	0.00002	0.00010	0.00043
	(!A0 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * !YN)	0.00068	0.00077	0.00110

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7R	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * !YN)	0.00084	0.00093	0.00126
	(!A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !YN)	0.00004	0.00004	0.00004
	(!A0 * B0 * !YN)	0.00016	0.00026	0.00059

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7R	(!A0 * !A1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !YN)	0.00029	0.00029	0.00029

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P5H7R	(!A0 * !A1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !YN)	-0.00029	-0.00029	-0.00029

AOI2BB1X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X0P7H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X0P7H7R	0.00075	0.00069	0.00077	0.02575

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X0P7H7R	0.00000	0.23391	0.36050

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X0P7H7R	A0->YN (RR)	0.04549	0.18404	0.52068
	A1->YN (RR)	0.04363	0.18003	0.51256
	B0->YN (FR)	0.02674	0.18654	0.67382

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X0P7H7R	A0->YN (FF)	0.05593	0.13500	0.32537
	A1->YN (FF)	0.05200	0.13369	0.32762
	B0->YN (RF)	0.01264	0.08946	0.39008

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7R	A0	0.00062	0.00072	0.00101
	A0	-0.00001	-0.00001	-0.00000
	A0	0.00001	0.00001	0.00001
	A0	0.00108	0.00117	0.00146
	A1	0.00064	0.00075	0.00107
	A1	-0.00006	-0.00005	-0.00005
	A1	0.00001	0.00001	0.00001
	A1	0.00096	0.00106	0.00139
	B0	0.00057	0.00064	0.00105
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00004	0.00004	0.00004
	B0	-0.00005	0.00003	0.00043

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7R	A0	0.00114	0.00121	0.00145
	A0	0.00000	0.00001	0.00002
	A0	-0.00001	-0.00001	-0.00001
	A0	0.00066	0.00073	0.00098
	A1	0.00099	0.00109	0.00144
	A1	0.00005	0.00005	0.00006
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00066	0.00076	0.00110
	B0	-0.00008	-0.00001	0.00039
	B0	0.00002	0.00002	0.00003
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00050	0.00060	0.00101

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7R	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00025	0.00025	0.00025
	(!A1 * B0 * !YN)	0.00001	0.00009	0.00036
	(!A1 * B0 * !YN)	0.00006	0.00007	0.00007
	(!A1 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * !YN)	0.00081	0.00089	0.00116

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7R	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00025	-0.00024	-0.00024
	(!A1 * B0 * !YN)	0.00101	0.00107	0.00131
	(!A1 * B0 * !YN)	-0.00007	-0.00007	-0.00006
	(!A1 * B0 * !YN)	0.00004	0.00004	0.00004
	(!A1 * B0 * !YN)	0.00019	0.00026	0.00049

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7R	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00025	0.00026	0.00026
	(!A0 * B0 * !YN)	0.00003	0.00011	0.00043
	(!A0 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * !YN)	0.00070	0.00078	0.00110

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7R	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00026	-0.00026	-0.00025
	(!A0 * B0 * !YN)	0.00087	0.00096	0.00128
	(!A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !YN)	0.00004	0.00004	0.00004
	(!A0 * B0 * !YN)	0.00019	0.00028	0.00061

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7R	(!A0 * !A1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !YN)	0.00031	0.00031	0.00031

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X0P7H7R	(!A0 * !A1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !YN)	-0.00031	-0.00031	-0.00030

AOI2BB1X1H7R

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X1H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X1H7R	0.00075	0.00069	0.00085	0.03061

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X1H7R	0.00000	0.25736	0.40893

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X1H7R	A0->YN (RR)	0.04363	0.18357	0.52338
	A1->YN (RR)	0.04175	0.17960	0.51555
	B0->YN (FR)	0.02405	0.18406	0.67501

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X1H7R	A0->YN (FF)	0.05640	0.13729	0.33146
	A1->YN (FF)	0.05248	0.13609	0.33387
	B0->YN (RF)	0.01177	0.08907	0.39363

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X1H7R	A0	0.00070	0.00080	0.00109
	A0	-0.00003	-0.00002	-0.00002
	A0	0.00001	0.00001	0.00001
	A0	0.00111	0.00121	0.00150
	A1	0.00072	0.00083	0.00116
	A1	-0.00008	-0.00007	-0.00007
	A1	0.00001	0.00001	0.00001
	A1	0.00100	0.00110	0.00143
	B0	0.00062	0.00070	0.00119
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00005	0.00005	0.00005
	B0	-0.00006	0.00003	0.00051

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X1H7R	A0	0.00117	0.00125	0.00149
	A0	0.00002	0.00002	0.00003
	A0	-0.00001	-0.00001	-0.00001
	A0	0.00074	0.00081	0.00105
	A1	0.00103	0.00113	0.00148
	A1	0.00007	0.00007	0.00008
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00074	0.00084	0.00119
	B0	-0.00009	-0.00001	0.00047
	B0	0.00002	0.00003	0.00003
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00054	0.00066	0.00115

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7R	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00024	0.00025	0.00025
	(!A1 * B0 * !YN)	0.00003	0.00010	0.00037
	(!A1 * B0 * !YN)	0.00007	0.00007	0.00007
	(!A1 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * !YN)	0.00083	0.00090	0.00118

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7R	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * !YN)	0.00103	0.00110	0.00133
	(!A1 * B0 * !YN)	-0.00007	-0.00007	-0.00007
	(!A1 * B0 * !YN)	0.00004	0.00004	0.00004
	(!A1 * B0 * !YN)	0.00022	0.00028	0.00051

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7R	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00025	0.00026	0.00026
	(!A0 * B0 * !YN)	0.00004	0.00013	0.00044
	(!A0 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * !YN)	0.00072	0.00080	0.00112

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7R	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00026	-0.00026	-0.00025
	(!A0 * B0 * !YN)	0.00090	0.00098	0.00130
	(!A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !YN)	0.00004	0.00004	0.00004
	(!A0 * B0 * !YN)	0.00022	0.00030	0.00062

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7R	(!A0 * !A1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !YN)	0.00033	0.00033	0.00033

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1H7R	(!A0 * !A1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !YN)	-0.00033	-0.00033	-0.00032

AOI2BB1X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X1P4H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X1P4H7R	0.00078	0.00071	0.00090	0.03491

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X1P4H7R	0.00000	0.28002	0.45692

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X1P4H7R	A0->YN (RR)	0.04255	0.18372	0.52644
	A1->YN (RR)	0.04065	0.17978	0.51872
	B0->YN (FR)	0.02213	0.18233	0.67495

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X1P4H7R	A0->YN (FF)	0.05708	0.13885	0.33446
	A1->YN (FF)	0.05316	0.13772	0.33724
	B0->YN (RF)	0.01104	0.08763	0.39081

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7R	A0	0.00077	0.00087	0.00116
	A0	-0.00005	-0.00003	-0.00002
	A0	0.00002	0.00002	0.00002
	A0	0.00115	0.00126	0.00154
	A1	0.00079	0.00090	0.00122
	A1	-0.00009	-0.00008	-0.00007
	A1	0.00002	0.00002	0.00002
	A1	0.00103	0.00114	0.00145
	B0	0.00066	0.00075	0.00132
	B0	-0.00004	-0.00003	-0.00002
	B0	0.00005	0.00006	0.00006
	B0	-0.00007	0.00003	0.00059

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7R	A0	0.00122	0.00129	0.00153
	A0	0.00002	0.00003	0.00005
	A0	-0.00002	-0.00002	-0.00002
	A0	0.00079	0.00088	0.00111
	A1	0.00107	0.00117	0.00153
	A1	0.00007	0.00008	0.00010
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00081	0.00091	0.00127
	B0	-0.00010	-0.00001	0.00054
	B0	0.00002	0.00003	0.00004
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00060	0.00071	0.00128

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7R	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00026	0.00026	0.00026
	(!A1 * B0 * !YN)	0.00004	0.00012	0.00038
	(!A1 * B0 * !YN)	0.00007	0.00007	0.00008
	(!A1 * B0 * !YN)	-0.00004	-0.00004	-0.00003
	(!A1 * B0 * !YN)	0.00087	0.00094	0.00121

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7R	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00026	-0.00026	-0.00025
	(!A1 * B0 * !YN)	0.00107	0.00113	0.00135
	(!A1 * B0 * !YN)	-0.00008	-0.00007	-0.00007
	(!A1 * B0 * !YN)	0.00004	0.00004	0.00004
	(!A1 * B0 * !YN)	0.00023	0.00029	0.00051

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7R	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00026	0.00026	0.00027
	(!A0 * B0 * !YN)	0.00006	0.00014	0.00045
	(!A0 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * !YN)	0.00074	0.00082	0.00114

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7R	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00027	-0.00026	-0.00026
	(!A0 * B0 * !YN)	0.00093	0.00101	0.00132
	(!A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !YN)	0.00004	0.00004	0.00004
	(!A0 * B0 * !YN)	0.00024	0.00032	0.00063

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7R	(!A0 * !A1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !YN)	0.00035	0.00035	0.00035

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X1P4H7R	(!A0 * !A1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !YN)	-0.00035	-0.00035	-0.00034

AOI2BB1X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X2H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X2H7R	0.00072	0.00078	0.00098	0.04099

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X2H7R	0.00000	0.31498	0.53256

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X2H7R	A0->YN (RR)	0.03966	0.18153	0.52608
	A1->YN (RR)	0.03863	0.17845	0.51921
	B0->YN (FR)	0.01963	0.17983	0.67597

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X2H7R	A0->YN (FF)	0.05449	0.13646	0.33126
	A1->YN (FF)	0.05280	0.13698	0.33518
	B0->YN (RF)	0.01005	0.08457	0.38499

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X2H7R	A0	0.00083	0.00093	0.00122
	A0	-0.00007	-0.00005	-0.00005
	A0	0.00003	0.00003	0.00003
	A0	0.00114	0.00124	0.00152
	A1	0.00083	0.00094	0.00125
	A1	-0.00011	-0.00010	-0.00008
	A1	0.00003	0.00003	0.00003
	A1	0.00102	0.00113	0.00144
	B0	0.00069	0.00080	0.00149
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00007	0.00007	0.00007
	B0	-0.00012	0.00000	0.00068

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X2H7R	A0	0.00120	0.00127	0.00152
	A0	0.00005	0.00005	0.00007
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00085	0.00093	0.00120
	A1	0.00107	0.00119	0.00156
	A1	0.00008	0.00010	0.00012
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00086	0.00097	0.00134
	B0	-0.00012	-0.00000	0.00067
	B0	0.00003	0.00004	0.00004
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00058	0.00078	0.00148

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7R	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00025	0.00025	0.00026
	(!A1 * B0 * !YN)	0.00007	0.00015	0.00042
	(!A1 * B0 * !YN)	0.00007	0.00008	0.00008
	(!A1 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * !YN)	0.00089	0.00096	0.00123

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7R	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * !YN)	0.00105	0.00111	0.00133
	(!A1 * B0 * !YN)	-0.00008	-0.00008	-0.00007
	(!A1 * B0 * !YN)	0.00004	0.00004	0.00004
	(!A1 * B0 * !YN)	0.00022	0.00028	0.00050

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7R	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00029	0.00029	0.00029
	(!A0 * B0 * !YN)	0.00007	0.00015	0.00046
	(!A0 * B0 * !YN)	0.00003	0.00004	0.00004
	(!A0 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * !YN)	0.00077	0.00085	0.00116

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7R	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00029	-0.00029	-0.00029
	(!A0 * B0 * !YN)	0.00095	0.00103	0.00133
	(!A0 * B0 * !YN)	-0.00004	-0.00004	-0.00003
	(!A0 * B0 * !YN)	0.00004	0.00004	0.00004
	(!A0 * B0 * !YN)	0.00023	0.00032	0.00063

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7R	(!A0 * !A1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !YN)	0.00038	0.00038	0.00038

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X2H7R	(!A0 * !A1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !YN)	-0.00038	-0.00038	-0.00037

AOI2BB1X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X3H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X3H7R	0.00087	0.00079	0.00166	0.06334

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X3H7R	0.00000	0.46655	0.82804

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X3H7R	A0->YN (RR)	0.04379	0.18933	0.54197
	A1->YN (RR)	0.04196	0.18583	0.53491
	B0->YN (FR)	0.01953	0.17971	0.67455

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X3H7R	A0->YN (FF)	0.06166	0.14712	0.34805
	A1->YN (FF)	0.05801	0.14632	0.35140
	B0->YN (RF)	0.01006	0.08489	0.38655

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X3H7R	A0	0.00170	0.00183	0.00215
	A0	-0.00012	-0.00010	-0.00007
	A0	0.00006	0.00006	0.00006
	A0	0.00181	0.00194	0.00227
	A1	0.00172	0.00186	0.00225
	A1	-0.00017	-0.00015	-0.00013
	A1	0.00006	0.00006	0.00006
	A1	0.00165	0.00178	0.00214
	B0	0.00128	0.00147	0.00259
	B0	-0.00007	-0.00006	-0.00005
	B0	0.00010	0.00010	0.00011
	B0	-0.00006	0.00014	0.00123

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X3H7R	A0	0.00173	0.00183	0.00213
	A0	0.00007	0.00010	0.00012
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00152	0.00165	0.00195
	A1	0.00156	0.00169	0.00216
	A1	0.00013	0.00016	0.00019
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00158	0.00171	0.00219
	B0	-0.00021	-0.00003	0.00104
	B0	0.00005	0.00006	0.00007
	B0	-0.00011	-0.00010	-0.00010
	B0	0.00105	0.00129	0.00240

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7R	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00010	-0.00009	-0.00008
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00030	0.00030	0.00032
	(!A1 * B0 * !YN)	0.00020	0.00028	0.00060
	(!A1 * B0 * !YN)	0.00011	0.00011	0.00011
	(!A1 * B0 * !YN)	-0.00006	-0.00006	-0.00005
	(!A1 * B0 * !YN)	0.00118	0.00127	0.00158

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7R	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00010	0.00011	0.00011
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * !YN)	0.00141	0.00147	0.00170
	(!A1 * B0 * !YN)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * !YN)	0.00006	0.00006	0.00006
	(!A1 * B0 * !YN)	0.00040	0.00046	0.00069

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7R	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00029	0.00030	0.00030
	(!A0 * B0 * !YN)	0.00022	0.00031	0.00067
	(!A0 * B0 * !YN)	0.00005	0.00006	0.00006
	(!A0 * B0 * !YN)	-0.00006	-0.00006	-0.00005
	(!A0 * B0 * !YN)	0.00102	0.00111	0.00147

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7R	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00030	-0.00030	-0.00029
	(!A0 * B0 * !YN)	0.00124	0.00133	0.00167
	(!A0 * B0 * !YN)	-0.00006	-0.00006	-0.00005
	(!A0 * B0 * !YN)	0.00005	0.00006	0.00006
	(!A0 * B0 * !YN)	0.00042	0.00051	0.00086

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7R	(!A0 * !A1 * !YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !YN)	0.00062	0.00062	0.00062

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X3H7R	(!A0 * !A1 * !YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !YN)	-0.00062	-0.00062	-0.00061

AOI2BB1X4H7R

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X4H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X4H7R	0.00086	0.00094	0.00191	0.08073

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X4H7R	0.00000	0.58633	1.04735

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X4H7R	A0->YN (RR)	0.03879	0.18297	0.53319
	A1->YN (RR)	0.03757	0.17994	0.52686
	B0->YN (FR)	0.01709	0.17727	0.67497

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X4H7R	A0->YN (FF)	0.05537	0.13996	0.33784
	A1->YN (FF)	0.05312	0.13984	0.34079
	B0->YN (RF)	0.00598	0.08231	0.38212

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X4H7R	A0	0.00192	0.00208	0.00250
	A0	-0.00016	-0.00013	-0.00008
	A0	0.00008	0.00008	0.00008
	A0	0.00192	0.00207	0.00247
	A1	0.00193	0.00209	0.00255
	A1	-0.00023	-0.00021	-0.00016
	A1	0.00008	0.00008	0.00008
	A1	0.00175	0.00192	0.00236
	B0	0.00145	0.00167	0.00314
	B0	-0.00008	-0.00008	-0.00005
	B0	0.00013	0.00014	0.00014
	B0	-0.00013	0.00012	0.00155

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X4H7R	A0	0.00187	0.00199	0.00237
	A0	0.00008	0.00013	0.00018
	A0	-0.00008	-0.00008	-0.00007
	A0	0.00182	0.00192	0.00230
	A1	0.00167	0.00186	0.00244
	A1	0.00016	0.00021	0.00025
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00181	0.00197	0.00256
	B0	-0.00028	-0.00004	0.00137
	B0	0.00005	0.00008	0.00010
	B0	-0.00014	-0.00014	-0.00013
	B0	0.00119	0.00151	0.00295

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7R	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00013	-0.00012	-0.00010
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00028	0.00028	0.00029
	(!A1 * B0 * !YN)	0.00023	0.00034	0.00072
	(!A1 * B0 * !YN)	0.00013	0.00014	0.00015
	(!A1 * B0 * !YN)	-0.00007	-0.00007	-0.00007
	(!A1 * B0 * !YN)	0.00130	0.00140	0.00178

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7R	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00013	0.00013	0.00013
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00028	-0.00028	-0.00027
	(!A1 * B0 * !YN)	0.00154	0.00162	0.00190
	(!A1 * B0 * !YN)	-0.00015	-0.00014	-0.00013
	(!A1 * B0 * !YN)	0.00007	0.00007	0.00007
	(!A1 * B0 * !YN)	0.00045	0.00052	0.00080

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7R	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00034	0.00034	0.00034
	(!A0 * B0 * !YN)	0.00024	0.00035	0.00078
	(!A0 * B0 * !YN)	0.00007	0.00007	0.00007
	(!A0 * B0 * !YN)	-0.00007	-0.00007	-0.00007
	(!A0 * B0 * !YN)	0.00114	0.00126	0.00168

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7R	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00034	-0.00034	-0.00034
	(!A0 * B0 * !YN)	0.00138	0.00149	0.00189
	(!A0 * B0 * !YN)	-0.00007	-0.00007	-0.00007
	(!A0 * B0 * !YN)	0.00007	0.00007	0.00007
	(!A0 * B0 * !YN)	0.00045	0.00056	0.00098

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7R	(!A0 * !A1 * !YN)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !YN)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !YN)	0.00069	0.00070	0.00070

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X4H7R	(!A0 * !A1 * !YN)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !YN)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !YN)	-0.00070	-0.00070	-0.00069

AOI2BB1X6H7R

Cell Description

AOI

Y=(A0N & A1N)+B0

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
0	0	x	0
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
AOI2BB1X6H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
AOI2BB1X6H7R	0.00105	0.00101	0.00274	0.12170

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB1X6H7R	0.00000	0.83452	1.54967

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X6H7R	A0->YN (RR)	0.03924	0.18611	0.54215
	A1->YN (RR)	0.03780	0.18302	0.53582
	B0->YN (FR)	0.01537	0.17546	0.67435

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB1X6H7R	A0->YN (FF)	0.05928	0.14712	0.35090
	A1->YN (FF)	0.05646	0.14656	0.35364
	B0->YN (RF)	0.00164	0.08148	0.38270

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X6H7R	A0	0.00277	0.00296	0.00341
	A0	-0.00023	-0.00023	-0.00020
	A0	0.00014	0.00014	0.00014
	A0	0.00249	0.00268	0.00313
	A1	0.00279	0.00300	0.00350
	A1	-0.00035	-0.00032	-0.00028
	A1	0.00014	0.00014	0.00014
	A1	0.00225	0.00246	0.00295
	B0	0.00205	0.00239	0.00469
	B0	-0.00012	-0.00012	-0.00009
	B0	0.00020	0.00020	0.00021
	B0	-0.00023	0.00016	0.00240

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB1X6H7R	A0	0.00250	0.00263	0.00313
	A0	0.00020	0.00023	0.00023
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00265	0.00280	0.00331
	A1	0.00222	0.00245	0.00325
	A1	0.00028	0.00032	0.00036
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00271	0.00289	0.00371
	B0	-0.00041	-0.00003	0.00215
	B0	0.00009	0.00012	0.00013
	B0	-0.00021	-0.00020	-0.00019
	B0	0.00166	0.00218	0.00444

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7R	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00016	-0.00015	-0.00013
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00003	-0.00002	-0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00034	0.00034	0.00035
	(!A1 * B0 * !YN)	0.00036	0.00047	0.00090
	(!A1 * B0 * !YN)	0.00017	0.00018	0.00019
	(!A1 * B0 * !YN)	-0.00009	-0.00009	-0.00008
	(!A1 * B0 * !YN)	0.00165	0.00177	0.00218

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7R	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00016	0.00016	0.00017
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	0.00001	0.00002	0.00003
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !YN) + (A1 * !B0 * YN)	-0.00034	-0.00034	-0.00034
	(!A1 * B0 * !YN)	0.00200	0.00208	0.00237
	(!A1 * B0 * !YN)	-0.00019	-0.00018	-0.00017
	(!A1 * B0 * !YN)	0.00009	0.00009	0.00009
	(!A1 * B0 * !YN)	0.00066	0.00074	0.00104

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7R	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00036	0.00036	0.00036
	(!A0 * B0 * !YN)	0.00039	0.00052	0.00099
	(!A0 * B0 * !YN)	0.00009	0.00009	0.00010
	(!A0 * B0 * !YN)	-0.00009	-0.00009	-0.00008
	(!A0 * B0 * !YN)	0.00143	0.00155	0.00202

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7R	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	0.00004	0.00004	0.00004
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00001	-0.00000	0.00001
	(A0 * B0 * !YN) + (A0 * !B0 * YN)	-0.00036	-0.00036	-0.00036
	(!A0 * B0 * !YN)	0.00176	0.00189	0.00233
	(!A0 * B0 * !YN)	-0.00010	-0.00009	-0.00009
	(!A0 * B0 * !YN)	0.00008	0.00009	0.00009
	(!A0 * B0 * !YN)	0.00070	0.00082	0.00127

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7R	(!A0 * !A1 * !YN)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !YN)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * !YN)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !YN)	0.00099	0.00100	0.00100

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB1X6H7R	(!A0 * !A1 * !YN)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !YN)	0.00011	0.00012	0.00012
	(!A0 * !A1 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !YN)	-0.00100	-0.00099	-0.00098

AOI2BB2X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	**A1**	**B0**	**B1**	**YN**
0	**0**	**x**	**x**	**0**
x	**1**	**0**	**x**	**1**
x	**1**	**1**	**0**	**1**
x	**1**	**1**	**1**	**0**
1	**x**	**0**	**x**	**1**
1	**x**	**1**	**0**	**1**
1	**x**	**1**	**1**	**0**

Footprint

Cell Name	Area
AOI2BB2X0P5H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X0P5H7R	0.00066	0.00083	0.00064	0.00069	0.02234

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X0P5H7R	0.00000	0.23428	0.32818

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X0P5H7R	A0->YN (RR)	0.04950	0.18549	0.51409
	A1->YN (RR)	0.04948	0.18329	0.50801
	B0->YN (FR)	0.03714	0.19407	0.65783
	B1->YN (FR)	0.03489	0.19020	0.65455

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X0P5H7R	A0->YN (FF)	0.05374	0.13295	0.32199
	A1->YN (FF)	0.05407	0.13506	0.32686
	B0->YN (RF)	0.02544	0.13933	0.50524
	B1->YN (RF)	0.02450	0.13800	0.51655

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7R	A0	0.00062	0.00072	0.00102
	A0	0.00004	0.00004	0.00004
	A0	0.00004	0.00004	0.00004
	A0	0.00116	0.00126	0.00155
	A1	0.00060	0.00072	0.00104
	A1	-0.00000	0.00000	0.00000
	A1	0.00004	0.00004	0.00004
	A1	0.00105	0.00116	0.00149
	B0	0.00091	0.00094	0.00111
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00007	0.00007	0.00007
	B0	0.00017	0.00020	0.00036
	B1	0.00082	0.00086	0.00106
	B1	-0.00008	-0.00008	-0.00008
	B1	0.00003	0.00004	0.00004
	B1	0.00020	0.00024	0.00043

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7R	A0	0.00113	0.00122	0.00148
	A0	-0.00004	-0.00004	-0.00004
	A0	-0.00000	-0.00000	0.00000
	A0	0.00059	0.00068	0.00095
	A1	0.00106	0.00118	0.00151
	A1	0.00000	0.00000	0.00001
	A1	-0.00000	-0.00000	0.00000
	A1	0.00062	0.00074	0.00110
	B0	-0.00007	-0.00005	0.00013
	B0	0.00008	0.00008	0.00008
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00062	0.00068	0.00086
	B1	-0.00008	-0.00003	0.00023
	B1	0.00008	0.00008	0.00008
	B1	-0.00004	-0.00003	-0.00003
	B1	0.00050	0.00056	0.00082

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7R	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00025	0.00025	0.00026
	(!A1 * B0 * B1 * !YN)	-0.00007	0.00001	0.00030
	(!A1 * B0 * B1 * !YN)	0.00008	0.00008	0.00008
	(!A1 * B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !YN)	0.00073	0.00081	0.00110

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7R	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00008	0.00008	0.00008
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * B1 * !YN)	0.00099	0.00106	0.00131
	(!A1 * B0 * B1 * !YN)	-0.00008	-0.00008	-0.00008
	(!A1 * B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !YN)	0.00018	0.00025	0.00050

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7R	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00030	0.00030	0.00030
	(!A0 * B0 * B1 * !YN)	-0.00008	0.00001	0.00032
	(!A0 * B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(!A0 * B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * B1 * !YN)	0.00063	0.00072	0.00104

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7R	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00030	-0.00030	-0.00030
	(!A0 * B0 * B1 * !YN)	0.00092	0.00102	0.00135
	(!A0 * B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(!A0 * B0 * B1 * !YN)	0.00021	0.00030	0.00063

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7R	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00019	0.00020	0.00020
	(!A0 * !A1 * B1 * !YN)	-0.00011	-0.00009	-0.00007
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !YN)	0.00021	0.00021	0.00022
	(!A0 * !A1 * !B1 * !YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	0.00019	0.00019	0.00019

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7R	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00013	0.00014	0.00014
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00019	-0.00019	-0.00018
	(!A0 * !A1 * B1 * !YN)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B1 * !YN)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00019	-0.00019	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7R	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00001	0.00002	0.00002
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !YN)	-0.00012	-0.00011	-0.00009
	(!A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * !YN)	0.00018	0.00019	0.00019
	(!A0 * !A1 * !B0 * !YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00016	0.00017	0.00017

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P5H7R	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00019	0.00019	0.00019
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B0 * !YN)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !YN)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * !YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00017	-0.00016	-0.00016

AOI2BB2X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X0P7H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X0P7H7R	0.00066	0.00083	0.00068	0.00073	0.02470

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X0P7H7R	0.00000	0.25257	0.36406

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X0P7H7R	A0->YN (RR)	0.04763	0.18209	0.50608
	A1->YN (RR)	0.04759	0.17993	0.50010
	B0->YN (FR)	0.03491	0.18953	0.64858
	B1->YN (FR)	0.03256	0.18548	0.64520

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X0P7H7R	A0->YN (FF)	0.05358	0.13237	0.31986
	A1->YN (FF)	0.05397	0.13462	0.32491
	B0->YN (RF)	0.02376	0.13547	0.49742
	B1->YN (RF)	0.02275	0.13367	0.50775

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7R	A0	0.00067	0.00077	0.00107
	A0	0.00004	0.00004	0.00004
	A0	0.00005	0.00005	0.00007
	A0	0.00117	0.00128	0.00157
	A1	0.00065	0.00077	0.00108
	A1	-0.00000	-0.00000	0.00000
	A1	0.00005	0.00005	0.00005
	A1	0.00107	0.00118	0.00150
	B0	0.00097	0.00101	0.00120
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00008	0.00008	0.00008
	B0	0.00017	0.00020	0.00039
	B1	0.00087	0.00092	0.00115
	B1	-0.00009	-0.00009	-0.00009
	B1	0.00004	0.00004	0.00004
	B1	0.00020	0.00024	0.00047

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7R	A0	0.00117	0.00126	0.00151
	A0	-0.00004	-0.00004	-0.00004
	A0	-0.00001	-0.00001	-0.00000
	A0	0.00066	0.00075	0.00100
	A1	0.00109	0.00121	0.00154
	A1	0.00000	0.00000	0.00001
	A1	-0.00001	-0.00001	-0.00000
	A1	0.00068	0.00080	0.00116
	B0	-0.00008	-0.00005	0.00014
	B0	0.00009	0.00009	0.00009
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00066	0.00074	0.00094
	B1	-0.00009	-0.00003	0.00026
	B1	0.00009	0.00009	0.00009
	B1	-0.00004	-0.00004	-0.00004
	B1	0.00051	0.00061	0.00091

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7R	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * !YN)	-0.00007	0.00001	0.00030
	(!A1 * B0 * B1 * !YN)	0.00008	0.00008	0.00008
	(!A1 * B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !YN)	0.00074	0.00081	0.00110

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7R	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00008	0.00008	0.00008
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * B1 * !YN)	0.00101	0.00108	0.00133
	(!A1 * B0 * B1 * !YN)	-0.00008	-0.00008	-0.00008
	(!A1 * B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !YN)	0.00020	0.00027	0.00052

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7R	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00030	0.00030	0.00030
	(!A0 * B0 * B1 * !YN)	-0.00008	0.00000	0.00032
	(!A0 * B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(!A0 * B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * B1 * !YN)	0.00064	0.00072	0.00104

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7R	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00030	-0.00030	-0.00030
	(!A0 * B0 * B1 * !YN)	0.00094	0.00104	0.00137
	(!A0 * B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(!A0 * B0 * B1 * !YN)	0.00023	0.00032	0.00065

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7R	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00020	0.00021	0.00021
	(!A0 * !A1 * B1 * !YN)	-0.00012	-0.00010	-0.00008
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !YN)	0.00022	0.00022	0.00023
	(!A0 * !A1 * !B1 * !YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	0.00020	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7R	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00014	0.00015	0.00015
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00020	-0.00020	-0.00019
	(!A0 * !A1 * B1 * !YN)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B1 * !YN)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7R	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00021	-0.00021	-0.00020
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00001	0.00002	0.00002
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !YN)	-0.00013	-0.00012	-0.00010
	(!A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * !YN)	0.00020	0.00020	0.00021
	(!A0 * !A1 * !B0 * !YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00018	0.00018	0.00018

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X0P7H7R	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00021	0.00021	0.00021
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !YN)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !YN)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00018	-0.00017	-0.00017

AOI2BB2X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X1H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X1H7R	0.00066	0.00083	0.00074	0.00079	0.03041

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X1H7R	0.00000	0.27838	0.41323

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X1H7R	A0->YN (RR)	0.04502	0.18480	0.52235
	A1->YN (RR)	0.04494	0.18268	0.51628
	B0->YN (FR)	0.03217	0.19139	0.66528
	B1->YN (FR)	0.02959	0.18705	0.66044

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X1H7R	A0->YN (FF)	0.05349	0.13558	0.33042
	A1->YN (FF)	0.05392	0.13793	0.33569
	B0->YN (RF)	0.02213	0.13802	0.51319
	B1->YN (RF)	0.02098	0.13580	0.52220

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X1H7R	A0	0.00074	0.00085	0.00114
	A0	0.00003	0.00003	0.00003
	A0	0.00006	0.00006	0.00006
	A0	0.00121	0.00132	0.00161
	A1	0.00073	0.00084	0.00116
	A1	-0.00001	-0.00001	0.00000
	A1	0.00006	0.00006	0.00007
	A1	0.00111	0.00122	0.00154
	B0	0.00108	0.00112	0.00135
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00010	0.00010	0.00010
	B0	0.00019	0.00022	0.00044
	B1	0.00096	0.00102	0.00129
	B1	-0.00011	-0.00011	-0.00011
	B1	0.00005	0.00005	0.00005
	B1	0.00021	0.00027	0.00054

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X1H7R	A0	0.00119	0.00128	0.00154
	A0	-0.00003	-0.00003	-0.00003
	A0	-0.00001	-0.00001	-0.00001
	A0	0.00072	0.00081	0.00107
	A1	0.00112	0.00123	0.00158
	A1	0.00000	0.00001	0.00001
	A1	-0.00001	-0.00001	-0.00001
	A1	0.00075	0.00086	0.00121
	B0	-0.00010	-0.00006	0.00017
	B0	0.00011	0.00011	0.00011
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00075	0.00082	0.00106
	B1	-0.00010	-0.00004	0.00031
	B1	0.00011	0.00011	0.00011
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00057	0.00067	0.00103

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7R	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * !YN)	-0.00007	0.00001	0.00030
	(!A1 * B0 * B1 * !YN)	0.00008	0.00009	0.00009
	(!A1 * B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !YN)	0.00075	0.00082	0.00111

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7R	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00008	0.00008	0.00008
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00025	-0.00024	-0.00024
	(!A1 * B0 * B1 * !YN)	0.00104	0.00111	0.00136
	(!A1 * B0 * B1 * !YN)	-0.00009	-0.00009	-0.00008
	(!A1 * B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !YN)	0.00023	0.00029	0.00054

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7R	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00030	0.00030	0.00030
	(!A0 * B0 * B1 * !YN)	-0.00008	0.00000	0.00032
	(!A0 * B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(!A0 * B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * B1 * !YN)	0.00065	0.00073	0.00104

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7R	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00030	-0.00030	-0.00030
	(!A0 * B0 * B1 * !YN)	0.00097	0.00107	0.00139
	(!A0 * B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(!A0 * B0 * B1 * !YN)	0.00025	0.00034	0.00066

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7R	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00016	-0.00016	-0.00016
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B1 * !YN)	-0.00013	-0.00012	-0.00010
	(!A0 * !A1 * B1 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B1 * !YN)	0.00023	0.00024	0.00024
	(!A0 * !A1 * !B1 * !YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	0.00021	0.00021	0.00022

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7R	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00016	0.00017	0.00017
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00001	0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * B1 * !YN)	0.00013	0.00014	0.00014
	(!A0 * !A1 * B1 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !B1 * !YN)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7R	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00002	0.00003	0.00003
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !YN)	-0.00015	-0.00014	-0.00012
	(!A0 * !A1 * B0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !YN)	0.00021	0.00021	0.00022
	(!A0 * !A1 * !B0 * !YN)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00019	0.00019	0.00019

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1H7R	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00023	0.00023	0.00023
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B0 * !YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * !YN)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * !YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00019	-0.00018	-0.00018

AOI2BB2X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X1P4H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X1P4H7R	0.00066	0.00083	0.00080	0.00085	0.03464

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X1P4H7R	0.00000	0.30351	0.46199

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X1P4H7R	A0->YN (RR)	0.04364	0.18436	0.52384
	A1->YN (RR)	0.04353	0.18225	0.51789
	B0->YN (FR)	0.03048	0.19001	0.66615
	B1->YN (FR)	0.02779	0.18541	0.66129

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X1P4H7R	A0->YN (FF)	0.05361	0.13639	0.33220
	A1->YN (FF)	0.05405	0.13880	0.33759
	B0->YN (RF)	0.02083	0.13606	0.51168
	B1->YN (RF)	0.01960	0.13360	0.51871

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7R	A0	0.00081	0.00092	0.00121
	A0	0.00003	0.00003	0.00003
	A0	0.00008	0.00008	0.00008
	A0	0.00122	0.00134	0.00165
	A1	0.00079	0.00091	0.00122
	A1	-0.00002	-0.00001	-0.00001
	A1	0.00008	0.00008	0.00008
	A1	0.00114	0.00126	0.00157
	B0	0.00120	0.00123	0.00149
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00011	0.00012	0.00012
	B0	0.00020	0.00023	0.00049
	B1	0.00105	0.00111	0.00142
	B1	-0.00013	-0.00013	-0.00013
	B1	0.00005	0.00006	0.00006
	B1	0.00022	0.00028	0.00060

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7R	A0	0.00122	0.00132	0.00157
	A0	-0.00003	-0.00003	-0.00003
	A0	-0.00002	-0.00002	-0.00002
	A0	0.00079	0.00088	0.00114
	A1	0.00114	0.00127	0.00163
	A1	0.00001	0.00001	0.00002
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00081	0.00094	0.00128
	B0	-0.00011	-0.00007	0.00019
	B0	0.00013	0.00013	0.00013
	B0	-0.00012	-0.00012	-0.00011
	B0	0.00081	0.00090	0.00117
	B1	-0.00011	-0.00005	0.00036
	B1	0.00013	0.00013	0.00013
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00062	0.00073	0.00115

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7R	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * !YN)	-0.00007	0.00001	0.00029
	(!A1 * B0 * B1 * !YN)	0.00009	0.00009	0.00009
	(!A1 * B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !YN)	0.00075	0.00083	0.00111

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7R	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00008	0.00008	0.00008
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * B1 * !YN)	0.00107	0.00113	0.00138
	(!A1 * B0 * B1 * !YN)	-0.00009	-0.00009	-0.00009
	(!A1 * B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !YN)	0.00025	0.00031	0.00055

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7R	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00030	0.00030	0.00030
	(!A0 * B0 * B1 * !YN)	-0.00008	0.00000	0.00031
	(!A0 * B0 * B1 * !YN)	0.00005	0.00005	0.00005
	(!A0 * B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * B1 * !YN)	0.00065	0.00073	0.00104

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7R	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00030	-0.00030	-0.00030
	(!A0 * B0 * B1 * !YN)	0.00100	0.00109	0.00141
	(!A0 * B0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(!A0 * B0 * B1 * !YN)	0.00027	0.00036	0.00068

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7R	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00018	-0.00018	-0.00018
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00002
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00023	0.00024	0.00024
	(!A0 * !A1 * B1 * !YN)	-0.00015	-0.00013	-0.00011
	(!A0 * !A1 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B1 * !YN)	0.00025	0.00025	0.00026
	(!A0 * !A1 * !B1 * !YN)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * !YN)	-0.00000	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * !YN)	0.00022	0.00023	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7R	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00018	0.00019	0.00019
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * B1 * !YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B1 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !B1 * !YN)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7R	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00002	0.00003	0.00003
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * !YN)	-0.00017	-0.00015	-0.00013
	(!A0 * !A1 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !YN)	0.00022	0.00023	0.00024
	(!A0 * !A1 * !B0 * !YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00020	0.00020	0.00020

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X1P4H7R	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00025	0.00025	0.00025
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !YN)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B0 * !YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00020	-0.00019	-0.00019

AOI2BB2X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X2H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X2H7R	0.00075	0.00062	0.00142	0.00129	0.04372

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X2H7R	0.00000	0.37792	0.61153

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X2H7R	A0->YN (RR)	0.04609	0.18417	0.51529
	A1->YN (RR)	0.04630	0.18620	0.52114
	B0->YN (FR)	0.03293	0.18744	0.64880
	B1->YN (FR)	0.02959	0.18311	0.64575

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X2H7R	A0->YN (FF)	0.06131	0.14895	0.35228
	A1->YN (FF)	0.06107	0.14630	0.34562
	B0->YN (RF)	0.02230	0.13441	0.49995
	B1->YN (RF)	0.02032	0.13198	0.50917

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X2H7R	A0	0.00121	0.00134	0.00163
	A0	-0.00002	-0.00002	-0.00000
	A0	0.00009	0.00011	0.00011
	A0	0.00132	0.00145	0.00179
	A1	0.00123	0.00134	0.00163
	A1	0.00002	0.00002	0.00003
	A1	0.00008	0.00011	0.00014
	A1	0.00144	0.00156	0.00189
	B0	0.00183	0.00190	0.00226
	B0	-0.00016	-0.00016	-0.00016
	B0	0.00015	0.00015	0.00015
	B0	0.00027	0.00033	0.00068
	B1	0.00159	0.00168	0.00213
	B1	-0.00016	-0.00016	-0.00016
	B1	0.00002	0.00007	0.00008
	B1	0.00035	0.00045	0.00089

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X2H7R	**A0**	0.00133	0.00147	0.00188
	A0	0.00001	0.00002	0.00004
	A0	-0.00004	-0.00004	-0.00003
	A0	0.00124	0.00137	0.00175
	A1	0.00141	0.00151	0.00178
	A1	-0.00002	-0.00002	-0.00001
	A1	-0.00004	-0.00004	-0.00003
	A1	0.00120	0.00130	0.00155
	B0	-0.00017	-0.00010	0.00026
	B0	0.00016	0.00016	0.00016
	B0	-0.00015	-0.00015	-0.00015
	B0	0.00130	0.00143	0.00181
	B1	-0.00015	-0.00006	0.00051
	B1	0.00016	0.00016	0.00016
	B1	-0.00007	-0.00007	-0.00002
	B1	0.00095	0.00111	0.00169

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7R	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00027	0.00027	0.00027
	(!A1 * B0 * B1 * !YN)	-0.00007	0.00000	0.00029
	(!A1 * B0 * B1 * !YN)	0.00006	0.00006	0.00006
	(!A1 * B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * B1 * !YN)	0.00065	0.00072	0.00101

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7R	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * B1 * !YN)	0.00117	0.00126	0.00156
	(!A1 * B0 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(!A1 * B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(!A1 * B0 * B1 * !YN)	0.00046	0.00054	0.00084

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7R	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00024	0.00024	0.00024
	(!A0 * B0 * B1 * !YN)	-0.00006	0.00001	0.00028
	(!A0 * B0 * B1 * !YN)	0.00010	0.00010	0.00011
	(!A0 * B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(!A0 * B0 * B1 * !YN)	0.00076	0.00084	0.00110

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7R	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00008	0.00008	0.00008
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00024	-0.00024	-0.00023
	(!A0 * B0 * B1 * !YN)	0.00125	0.00130	0.00153
	(!A0 * B0 * B1 * !YN)	-0.00010	-0.00010	-0.00010
	(!A0 * B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(!A0 * B0 * B1 * !YN)	0.00042	0.00047	0.00070

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7R	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00032	-0.00032	-0.00032
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00002
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00038	0.00038	0.00039
	(!A0 * !A1 * B1 * !YN)	-0.00025	-0.00022	-0.00018
	(!A0 * !A1 * B1 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B1 * !YN)	0.00043	0.00044	0.00046
	(!A0 * !A1 * !B1 * !YN)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * !YN)	0.00039	0.00039	0.00040

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7R	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00032	0.00033	0.00034
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00038	-0.00037	-0.00035
	(!A0 * !A1 * B1 * !YN)	0.00024	0.00025	0.00025
	(!A0 * !A1 * B1 * !YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	0.00000
	(!A0 * !A1 * B1 * !YN)	-0.00043	-0.00042	-0.00042
	(!A0 * !A1 * !B1 * !YN)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00039	-0.00038	-0.00038

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7R	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00036	-0.00036	-0.00036
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00004	0.00004	0.00005
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !YN)	-0.00020	-0.00017	-0.00015
	(!A0 * !A1 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !YN)	0.00038	0.00038	0.00039
	(!A0 * !A1 * !B0 * !YN)	-0.00024	-0.00024	-0.00023
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00000	0.00000
	(!A0 * !A1 * !B0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !YN)	0.00035	0.00035	0.00035

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X2H7R	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00036	0.00036	0.00036
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !YN)	0.00019	0.00020	0.00020
	(!A0 * !A1 * B0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !YN)	-0.00038	-0.00038	-0.00037
	(!A0 * !A1 * !B0 * !YN)	0.00023	0.00024	0.00024
	(!A0 * !A1 * !B0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !YN)	-0.00035	-0.00034	-0.00033

AOI2BB2X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X3H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X3H7R	0.00081	0.00070	0.00158	0.00157	0.06145

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X3H7R	0.00000	0.51076	0.83730

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X3H7R	A0->YN (RR)	0.03965	0.17652	0.50611
	A1->YN (RR)	0.04022	0.17898	0.51222
	B0->YN (FR)	0.02833	0.18334	0.65123
	B1->YN (FR)	0.02527	0.17936	0.64901

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X3H7R	A0->YN (FF)	0.05343	0.13987	0.33971
	A1->YN (FF)	0.05416	0.13846	0.33465
	B0->YN (RF)	0.01899	0.13056	0.49824
	B1->YN (RF)	0.01727	0.12766	0.50669

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X3H7R	A0	0.00148	0.00164	0.00204
	A0	-0.00004	-0.00003	-0.00002
	A0	0.00013	0.00016	0.00017
	A0	0.00147	0.00163	0.00208
	A1	0.00150	0.00163	0.00201
	A1	0.00002	0.00002	0.00002
	A1	0.00015	0.00017	0.00017
	A1	0.00163	0.00178	0.00220
	B0	0.00221	0.00233	0.00282
	B0	-0.00024	-0.00024	-0.00023
	B0	0.00021	0.00021	0.00021
	B0	0.00031	0.00039	0.00088
	B1	0.00193	0.00205	0.00270
	B1	-0.00024	-0.00024	-0.00023
	B1	0.00005	0.00010	0.00011
	B1	0.00037	0.00050	0.00113

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X3H7R	A0	0.00148	0.00163	0.00218
	A0	0.00002	0.00003	0.00005
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00150	0.00166	0.00217
	A1	0.00159	0.00170	0.00207
	A1	-0.00002	-0.00002	-0.00001
	A1	-0.00006	-0.00006	-0.00005
	A1	0.00145	0.00157	0.00191
	B0	-0.00022	-0.00013	0.00037
	B0	0.00023	0.00024	0.00024
	B0	-0.00021	-0.00021	-0.00021
	B0	0.00161	0.00176	0.00228
	B1	-0.00021	-0.00008	0.00071
	B1	0.00023	0.00024	0.00024
	B1	-0.00011	-0.00010	-0.00005
	B1	0.00113	0.00140	0.00221

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7R	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00002	-0.00003	-0.00002
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00027	0.00028	0.00028
	(!A1 * B0 * B1 * !YN)	-0.00009	0.00001	0.00038
	(!A1 * B0 * B1 * !YN)	0.00009	0.00009	0.00009
	(!A1 * B0 * B1 * !YN)	-0.00006	-0.00006	-0.00005
	(!A1 * B0 * B1 * !YN)	0.00072	0.00081	0.00118

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7R	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00028	-0.00028	-0.00027
	(!A1 * B0 * B1 * !YN)	0.00130	0.00141	0.00179
	(!A1 * B0 * B1 * !YN)	-0.00009	-0.00008	-0.00008
	(!A1 * B0 * B1 * !YN)	0.00005	0.00006	0.00006
	(!A1 * B0 * B1 * !YN)	0.00050	0.00061	0.00099

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7R	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00010	-0.00009	-0.00008
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00025	0.00026	0.00026
	(!A0 * B0 * B1 * !YN)	-0.00008	0.00001	0.00034
	(!A0 * B0 * B1 * !YN)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * !YN)	-0.00006	-0.00005	-0.00005
	(!A0 * B0 * B1 * !YN)	0.00087	0.00096	0.00129

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7R	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00010	0.00010	0.00011
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00025	-0.00025	-0.00024
	(!A0 * B0 * B1 * !YN)	0.00141	0.00148	0.00176
	(!A0 * B0 * B1 * !YN)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * B1 * !YN)	0.00005	0.00006	0.00006
	(!A0 * B0 * B1 * !YN)	0.00046	0.00053	0.00080

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7R	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00037	-0.00037	-0.00037
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00000	0.00002	0.00002
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00042	0.00043	0.00044
	(!A0 * !A1 * B1 * !YN)	-0.00030	-0.00027	-0.00023
	(!A0 * !A1 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !YN)	0.00047	0.00048	0.00050
	(!A0 * !A1 * !B1 * !YN)	-0.00036	-0.00036	-0.00035
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * !YN)	0.00043	0.00043	0.00044

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7R	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00038	0.00038	0.00040
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00002	-0.00002	-0.00000
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00042	-0.00040	-0.00039
	(!A0 * !A1 * B1 * !YN)	0.00030	0.00030	0.00030
	(!A0 * !A1 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !YN)	-0.00048	-0.00047	-0.00047
	(!A0 * !A1 * !B1 * !YN)	0.00036	0.00036	0.00036
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * !YN)	-0.00044	-0.00042	-0.00041

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7R	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00047	-0.00047	-0.00046
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00005	0.00005	0.00006
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !YN)	-0.00026	-0.00024	-0.00020
	(!A0 * !A1 * B0 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !YN)	0.00046	0.00047	0.00048
	(!A0 * !A1 * !B0 * !YN)	-0.00031	-0.00031	-0.00031
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * !YN)	0.00042	0.00042	0.00042

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X3H7R	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00046	0.00047	0.00047
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !YN)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !YN)	-0.00046	-0.00046	-0.00045
	(!A0 * !A1 * !B0 * !YN)	0.00031	0.00031	0.00031
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * !YN)	-0.00042	-0.00041	-0.00039

AOI2BB2X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X4H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X4H7R	0.00108	0.00093	0.00273	0.00263	0.08757

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X4H7R	0.00000	0.67145	1.13267

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X4H7R	A0->YN (RR)	0.04266	0.18414	0.52301
	A1->YN (RR)	0.04075	0.18050	0.51641
	B0->YN (FR)	0.02936	0.18397	0.64955
	B1->YN (FR)	0.02565	0.17936	0.64653

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X4H7R	A0->YN (FF)	0.06367	0.15496	0.36822
	A1->YN (FF)	0.05963	0.15391	0.37104
	B0->YN (RF)	0.01952	0.13138	0.49913
	B1->YN (RF)	0.01778	0.12904	0.50919

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X4H7R	A0	0.00215	0.00232	0.00275
	A0	0.00001	0.00002	0.00002
	A0	0.00023	0.00024	0.00024
	A0	0.00226	0.00244	0.00296
	A1	0.00217	0.00235	0.00282
	A1	-0.00005	-0.00005	-0.00003
	A1	0.00019	0.00024	0.00029
	A1	0.00203	0.00222	0.00279
	B0	0.00341	0.00358	0.00435
	B0	-0.00032	-0.00032	-0.00032
	B0	0.00028	0.00029	0.00029
	B0	0.00037	0.00052	0.00128
	B1	0.00303	0.00320	0.00422
	B1	-0.00032	-0.00032	-0.00032
	B1	0.00013	0.00014	0.00014
	B1	0.00056	0.00074	0.00174

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X4H7R	A0	0.00229	0.00243	0.00287
	A0	-0.00002	-0.00002	0.00000
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00218	0.00232	0.00271
	A1	0.00205	0.00226	0.00298
	A1	0.00003	0.00005	0.00009
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00222	0.00241	0.00306
	B0	-0.00034	-0.00018	0.00060
	B0	0.00032	0.00032	0.00032
	B0	-0.00029	-0.00029	-0.00028
	B0	0.00254	0.00279	0.00360
	B1	-0.00032	-0.00012	0.00107
	B1	0.00032	0.00032	0.00032
	B1	-0.00014	-0.00014	-0.00013
	B1	0.00188	0.00222	0.00344

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7R	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00038	0.00038	0.00039
	(!A1 * B0 * B1 * !YN)	-0.00011	-0.00002	0.00034
	(!A1 * B0 * B1 * !YN)	0.00017	0.00017	0.00017
	(!A1 * B0 * B1 * !YN)	-0.00007	-0.00007	-0.00007
	(!A1 * B0 * B1 * !YN)	0.00118	0.00127	0.00162

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7R	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00012	0.00013	0.00013
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00001	-0.00000	0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00038	-0.00038	-0.00037
	(!A1 * B0 * B1 * !YN)	0.00199	0.00207	0.00235
	(!A1 * B0 * B1 * !YN)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * B1 * !YN)	0.00007	0.00007	0.00007
	(!A1 * B0 * B1 * !YN)	0.00069	0.00078	0.00106

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7R	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00034	0.00035	0.00035
	(!A0 * B0 * B1 * !YN)	-0.00010	0.00001	0.00042
	(!A0 * B0 * B1 * !YN)	0.00010	0.00010	0.00010
	(!A0 * B0 * B1 * !YN)	-0.00007	-0.00007	-0.00006
	(!A0 * B0 * B1 * !YN)	0.00095	0.00105	0.00146

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7R	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00035	-0.00034	-0.00034
	(!A0 * B0 * B1 * !YN)	0.00178	0.00190	0.00232
	(!A0 * B0 * B1 * !YN)	-0.00010	-0.00010	-0.00010
	(!A0 * B0 * B1 * !YN)	0.00007	0.00007	0.00007
	(!A0 * B0 * B1 * !YN)	0.00075	0.00086	0.00128

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7R	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00062	-0.00061	-0.00061
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00002	0.00003	0.00006
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00067	0.00070	0.00071
	(!A0 * !A1 * B1 * !YN)	-0.00040	-0.00035	-0.00028
	(!A0 * !A1 * B1 * !YN)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !YN)	0.00001	0.00002	0.00003
	(!A0 * !A1 * B1 * !YN)	0.00088	0.00089	0.00091
	(!A0 * !A1 * !B1 * !YN)	-0.00049	-0.00049	-0.00048
	(!A0 * !A1 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * !YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * !YN)	0.00081	0.00082	0.00082

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7R	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00062	0.00063	0.00064
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00069	-0.00067	-0.00062
	(!A0 * !A1 * B1 * !YN)	0.00039	0.00040	0.00040
	(!A0 * !A1 * B1 * !YN)	0.00004	0.00004	0.00005
	(!A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !YN)	-0.00088	-0.00087	-0.00086
	(!A0 * !A1 * !B1 * !YN)	0.00048	0.00049	0.00049
	(!A0 * !A1 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !YN)	-0.00082	-0.00080	-0.00079

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7R	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00076	-0.00075	-0.00074
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00007	0.00008	0.00008
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B0 * !YN)	-0.00045	-0.00040	-0.00031
	(!A0 * !A1 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !YN)	0.00066	0.00068	0.00072
	(!A0 * !A1 * !B0 * !YN)	-0.00057	-0.00057	-0.00056
	(!A0 * !A1 * !B0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * !YN)	0.00059	0.00060	0.00060

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X4H7R	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00075	0.00076	0.00076
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00002
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00008	-0.00007	-0.00007
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * B0 * !YN)	0.00046	0.00046	0.00046
	(!A0 * !A1 * B0 * !YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !YN)	-0.00067	-0.00066	-0.00066
	(!A0 * !A1 * !B0 * !YN)	0.00056	0.00057	0.00057
	(!A0 * !A1 * !B0 * !YN)	0.00001	0.00002	0.00003
	(!A0 * !A1 * !B0 * !YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !YN)	-0.00060	-0.00058	-0.00056

AOI2BB2X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=(A0N & A1N)+ (B0 & B1)

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	0	x	x	0
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
AOI2BB2X6H7R	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
AOI2BB2X6H7R	0.00116	0.00127	0.00329	0.00319	0.12269

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2BB2X6H7R	0.00000	0.97206	1.64340

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X6H7R	A0->YN (RR)	0.04107	0.18268	0.52049
	A1->YN (RR)	0.04019	0.18018	0.51458
	B0->YN (FR)	0.02671	0.18182	0.65199
	B1->YN (FR)	0.02297	0.17708	0.64748

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2BB2X6H7R	A0->YN (FF)	0.06514	0.15646	0.36780
	A1->YN (FF)	0.06336	0.15749	0.37382
	B0->YN (RF)	0.01758	0.12889	0.49804
	B1->YN (RF)	0.01574	0.12579	0.50660

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X6H7R	A0	0.00285	0.00308	0.00368
	A0	-0.00000	0.00000	0.00001
	A0	0.00029	0.00035	0.00036
	A0	0.00283	0.00308	0.00383
	A1	0.00285	0.00309	0.00372
	A1	-0.00009	-0.00008	-0.00006
	A1	0.00029	0.00035	0.00042
	A1	0.00264	0.00289	0.00369
	B0	0.00438	0.00460	0.00563
	B0	-0.00048	-0.00047	-0.00047
	B0	0.00042	0.00042	0.00043
	B0	0.00052	0.00070	0.00171
	B1	0.00382	0.00406	0.00547
	B1	-0.00048	-0.00047	-0.00047
	B1	0.00020	0.00021	0.00022
	B1	0.00069	0.00093	0.00232

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2BB2X6H7R	A0	0.00299	0.00319	0.00393
	A0	0.00000	0.00000	0.00003
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00303	0.00321	0.00386
	A1	0.00280	0.00306	0.00418
	A1	0.00006	0.00009	0.00012
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00306	0.00330	0.00429
	B0	-0.00045	-0.00026	0.00079
	B0	0.00047	0.00047	0.00048
	B0	-0.00043	-0.00042	-0.00042
	B0	0.00315	0.00354	0.00461
	B1	-0.00043	-0.00016	0.00147
	B1	0.00047	0.00047	0.00048
	B1	-0.00021	-0.00021	-0.00020
	B1	0.00228	0.00281	0.00449

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7R	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00015	-0.00013	-0.00012
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00042	0.00043	0.00044
	(!A1 * B0 * B1 * !YN)	-0.00012	-0.00001	0.00045
	(!A1 * B0 * B1 * !YN)	0.00021	0.00022	0.00022
	(!A1 * B0 * B1 * !YN)	-0.00009	-0.00009	-0.00007
	(!A1 * B0 * B1 * !YN)	0.00142	0.00153	0.00198

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7R	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00015	0.00015	0.00015
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * B1 * !YN) + (A1 * B0 * !B1 * YN) + (A1 * !B0 * YN)	-0.00042	-0.00042	-0.00041
	(!A1 * B0 * B1 * !YN)	0.00258	0.00268	0.00305
	(!A1 * B0 * B1 * !YN)	-0.00022	-0.00022	-0.00021
	(!A1 * B0 * B1 * !YN)	0.00009	0.00009	0.00009
	(!A1 * B0 * B1 * !YN)	0.00104	0.00114	0.00150

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7R	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00001	0.00001	0.00002
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00047	0.00048	0.00048
	(!A0 * B0 * B1 * !YN)	-0.00012	0.00001	0.00050
	(!A0 * B0 * B1 * !YN)	0.00014	0.00014	0.00014
	(!A0 * B0 * B1 * !YN)	-0.00009	-0.00009	-0.00009
	(!A0 * B0 * B1 * !YN)	0.00122	0.00135	0.00185

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7R	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	0.00004	0.00004	0.00004
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00001	-0.00001	0.00000
	(A0 * B0 * B1 * !YN) + (A0 * B0 * !B1 * YN) + (A0 * !B0 * YN)	-0.00048	-0.00048	-0.00047
	(!A0 * B0 * B1 * !YN)	0.00239	0.00254	0.00307
	(!A0 * B0 * B1 * !YN)	-0.00014	-0.00014	-0.00013
	(!A0 * B0 * B1 * !YN)	0.00009	0.00009	0.00009
	(!A0 * B0 * B1 * !YN)	0.00106	0.00121	0.00174

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7R	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00078	-0.00077	-0.00077
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00083	0.00084	0.00085
	(!A0 * !A1 * B1 * !YN)	-0.00053	-0.00047	-0.00039
	(!A0 * !A1 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !YN)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !YN)	0.00104	0.00105	0.00109
	(!A0 * !A1 * !B1 * !YN)	-0.00063	-0.00063	-0.00063
	(!A0 * !A1 * !B1 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * !YN)	0.00005	0.00005	0.00006
	(!A0 * !A1 * !B1 * !YN)	0.00095	0.00096	0.00096

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7R	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00078	0.00080	0.00081
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	0.00001	0.00002	0.00002
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !B1 * YN) + (!A0 * A1 * !B1 * YN)	-0.00082	-0.00078	-0.00073
	(!A0 * !A1 * B1 * !YN)	0.00052	0.00053	0.00053
	(!A0 * !A1 * B1 * !YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !YN)	-0.00104	-0.00103	-0.00102
	(!A0 * !A1 * !B1 * !YN)	0.00063	0.00063	0.00064
	(!A0 * !A1 * !B1 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * !YN)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * !YN)	-0.00096	-0.00093	-0.00090

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7R	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00095	-0.00094	-0.00094
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00007	0.00010	0.00012
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00018	0.00020	0.00024
	(!A0 * !A1 * B0 * !YN)	-0.00060	-0.00053	-0.00043
	(!A0 * !A1 * B0 * !YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !YN)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !YN)	0.00081	0.00084	0.00089
	(!A0 * !A1 * !B0 * !YN)	-0.00074	-0.00073	-0.00073
	(!A0 * !A1 * !B0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * !YN)	0.00005	0.00005	0.00006
	(!A0 * !A1 * !B0 * !YN)	0.00072	0.00073	0.00073

Passive power(pJ) for B1 falling (conditional):

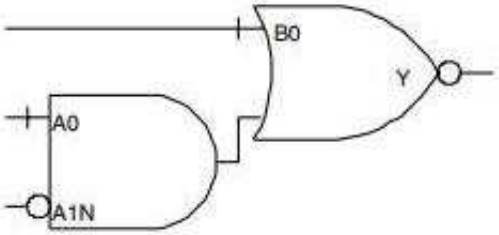
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2BB2X6H7R	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00094	0.00095	0.00095
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00010	-0.00010	-0.00007
	(A0 * !B0 * YN) + (!A0 * A1 * !B0 * YN)	-0.00020	-0.00020	-0.00018
	(!A0 * !A1 * B0 * !YN)	0.00059	0.00060	0.00061
	(!A0 * !A1 * B0 * !YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !YN)	-0.00081	-0.00081	-0.00080
	(!A0 * !A1 * !B0 * !YN)	0.00073	0.00073	0.00074
	(!A0 * !A1 * !B0 * !YN)	0.00002	0.00002	0.00004
	(!A0 * !A1 * !B0 * !YN)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !YN)	-0.00073	-0.00071	-0.00067

AOI2XB1X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X0P5H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X0P5H7R	0.00071	0.00082	0.00081	0.02265

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X0P5H7R	0.00000	0.20075	0.36874

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X0P5H7R	A0->Y (FR)	0.04009	0.19883	0.66468
	A1N->Y (RR)	0.05114	0.18631	0.51922
	B0->Y (FR)	0.03410	0.19465	0.67790

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X0P5H7R	A0->Y (RF)	0.02833	0.14397	0.51346
	A1N->Y (FF)	0.04555	0.15202	0.41178
	B0->Y (RF)	0.01426	0.09278	0.39299

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7R	A0	0.00089	0.00092	0.00107
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00007	0.00007	0.00007
	A0	0.00004	0.00007	0.00022
	A1N	0.00085	0.00097	0.00136
	A1N	-0.00006	-0.00006	-0.00006
	A1N	0.00002	0.00002	0.00002
	A1N	0.00108	0.00120	0.00159
	B0	0.00061	0.00068	0.00107
	B0	-0.00002	-0.00002	0.00000
	B0	0.00007	0.00007	0.00007
	B0	-0.00000	0.00007	0.00046

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7R	A0	0.00005	0.00008	0.00024
	A0	0.00008	0.00008	0.00008
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00086	0.00091	0.00107
	A1N	0.00090	0.00102	0.00144
	A1N	0.00006	0.00006	0.00006
	A1N	-0.00002	-0.00002	-0.00002
	A1N	0.00064	0.00076	0.00120
	B0	0.00004	0.00010	0.00042
	B0	0.00000	0.00002	0.00003
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00069	0.00076	0.00110

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7R	(A1N * B0 * !Y)	-0.00013	-0.00013	-0.00012
	(A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	0.00023	0.00023	0.00023
	(A1N * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	0.00000	0.00001	0.00001
	(A1N * !B0 * Y)	0.00020	0.00021	0.00021
	(!A1N * B0 * !Y)	-0.00014	-0.00013	-0.00011
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7R	(A1N * B0 * !Y)	0.00012	0.00013	0.00013
	(A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1N * B0 * !Y)	-0.00023	-0.00023	-0.00022
	(A1N * !B0 * Y)	0.00015	0.00016	0.00016
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1N * !B0 * Y)	-0.00020	-0.00020	-0.00019
	(!A1N * B0 * !Y)	0.00014	0.00014	0.00014
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7R	(B0 * !Y)	0.00000	0.00011	0.00050
	(B0 * !Y)	0.00003	0.00003	0.00004
	(B0 * !Y)	-0.00002	-0.00002	-0.00002
	(B0 * !Y)	0.00069	0.00080	0.00119
	(!A0 * !B0 * Y)	0.00010	0.00021	0.00060
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	0.00079	0.00090	0.00129

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7R	(B0 * !Y)	0.00078	0.00089	0.00131
	(B0 * !Y)	-0.00004	-0.00003	-0.00003
	(B0 * !Y)	0.00002	0.00002	0.00002
	(B0 * !Y)	0.00008	0.00020	0.00062
	(!A0 * !B0 * Y)	0.00063	0.00075	0.00118
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00006	0.00006	0.00048

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7R	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1N * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1N * !Y)	0.00030	0.00030	0.00030

Passive power(pJ) for B0 falling (conditional):

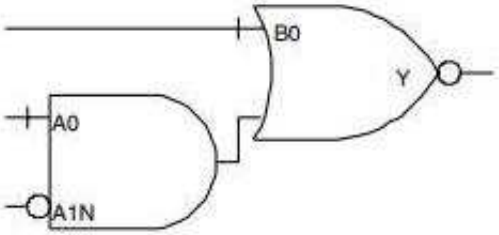
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P5H7R	(A0 * !A1N * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1N * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1N * !Y)	-0.00030	-0.00030	-0.00030

AOI2XB1X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X0P7H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X0P7H7R	0.00074	0.00081	0.00082	0.02558

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X0P7H7R	0.00000	0.21499	0.39564

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X0P7H7R	A0->Y (FR)	0.03717	0.19603	0.66540
	A1N->Y (RR)	0.04849	0.18450	0.51926
	B0->Y (FR)	0.03113	0.19172	0.67634

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X0P7H7R	A0->Y (RF)	0.02625	0.14131	0.51175
	A1N->Y (FF)	0.04381	0.15028	0.40985
	B0->Y (RF)	0.01311	0.09071	0.38984

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7R	A0	0.00093	0.00097	0.00114
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00008	0.00008	0.00008
	A0	0.00003	0.00006	0.00023
	A1N	0.00090	0.00102	0.00141
	A1N	-0.00008	-0.00007	-0.00007
	A1N	0.00002	0.00003	0.00003
	A1N	0.00109	0.00121	0.00160
	B0	0.00062	0.00070	0.00115
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00008	0.00008	0.00008
	B0	-0.00001	0.00008	0.00052

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7R	A0	0.00005	0.00009	0.00027
	A0	0.00009	0.00009	0.00009
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00092	0.00097	0.00115
	A1N	0.00092	0.00104	0.00146
	A1N	0.00007	0.00007	0.00008
	A1N	-0.00003	-0.00003	-0.00002
	A1N	0.00069	0.00081	0.00123
	B0	0.00004	0.00011	0.00048
	B0	0.00002	0.00002	0.00003
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00072	0.00080	0.00119

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7R	(A1N * B0 * !Y)	-0.00014	-0.00013	-0.00013
	(A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	0.00024	0.00024	0.00024
	(A1N * !B0 * Y)	-0.00016	-0.00016	-0.00016
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	0.00000	0.00001	0.00001
	(A1N * !B0 * Y)	0.00021	0.00021	0.00022
	(!A1N * B0 * !Y)	-0.00015	-0.00014	-0.00012
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	0.00000	0.00000	0.00001
	(!A1N * B0 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7R	(A1N * B0 * !Y)	0.00013	0.00013	0.00014
	(A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1N * B0 * !Y)	-0.00024	-0.00024	-0.00023
	(A1N * !B0 * Y)	0.00017	0.00017	0.00018
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1N * !B0 * Y)	-0.00021	-0.00021	-0.00020
	(!A1N * B0 * !Y)	0.00015	0.00015	0.00015
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00022	-0.00022	-0.00022

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7R	(B0 * !Y)	0.00002	0.00012	0.00051
	(B0 * !Y)	0.00004	0.00004	0.00004
	(B0 * !Y)	-0.00002	-0.00002	-0.00002
	(B0 * !Y)	0.00070	0.00081	0.00119
	(!A0 * !B0 * Y)	0.00011	0.00022	0.00062
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * Y)	0.00080	0.00091	0.00131

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7R	(B0 * !Y)	0.00078	0.00090	0.00131
	(B0 * !Y)	-0.00004	-0.00004	-0.00004
	(B0 * !Y)	0.00002	0.00002	0.00002
	(B0 * !Y)	0.00009	0.00021	0.00062
	(!A0 * !B0 * Y)	0.00063	0.00075	0.00117
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * Y)	-0.00006	0.00006	0.00048

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7R	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1N * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1N * !Y)	0.00030	0.00031	0.00031

Passive power(pJ) for B0 falling (conditional):

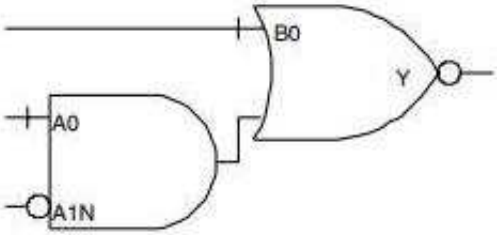
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X0P7H7R	(A0 * !A1N * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1N * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1N * !Y)	-0.00031	-0.00030	-0.00030

AOI2XB1X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X1H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X1H7R	0.00080	0.00082	0.00087	0.03041

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X1H7R	0.00000	0.23537	0.43296

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X1H7R	A0->Y (FR)	0.03391	0.19316	0.66603
	A1N->Y (RR)	0.04588	0.18335	0.52106
	B0->Y (FR)	0.02807	0.18888	0.67601

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X1H7R	A0->Y (RF)	0.02444	0.14080	0.51705
	A1N->Y (FF)	0.04273	0.15125	0.41561
	B0->Y (RF)	0.01215	0.09014	0.39345

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X1H7R	A0	0.00102	0.00106	0.00127
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00010	0.00010	0.00010
	A0	0.00002	0.00005	0.00026
	A1N	0.00099	0.00111	0.00150
	A1N	-0.00009	-0.00009	-0.00008
	A1N	0.00003	0.00003	0.00003
	A1N	0.00113	0.00125	0.00164
	B0	0.00066	0.00076	0.00130
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00010	0.00010	0.00010
	B0	-0.00001	0.00009	0.00061

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X1H7R	A0	0.00006	0.00010	0.00031
	A0	0.00011	0.00011	0.00011
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00102	0.00108	0.00130
	A1N	0.00095	0.00107	0.00149
	A1N	0.00008	0.00009	0.00009
	A1N	-0.00003	-0.00003	-0.00003
	A1N	0.00077	0.00090	0.00132
	B0	0.00004	0.00012	0.00058
	B0	0.00002	0.00003	0.00004
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00077	0.00088	0.00135

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7R	(A1N * B0 * !Y)	-0.00016	-0.00015	-0.00015
	(A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	0.00025	0.00025	0.00025
	(A1N * !B0 * Y)	-0.00018	-0.00018	-0.00018
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	0.00023	0.00023	0.00023
	(!A1N * B0 * !Y)	-0.00017	-0.00015	-0.00013
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00023	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7R	(A1N * B0 * !Y)	0.00015	0.00015	0.00016
	(A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1N * B0 * !Y)	-0.00025	-0.00025	-0.00024
	(A1N * !B0 * Y)	0.00018	0.00019	0.00020
	(A1N * !B0 * Y)	0.00000	0.00000	0.00000
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	-0.00022	-0.00022	-0.00021
	(!A1N * B0 * !Y)	0.00016	0.00017	0.00017
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7R	(B0 * !Y)	0.00003	0.00014	0.00052
	(B0 * !Y)	0.00004	0.00004	0.00004
	(B0 * !Y)	-0.00002	-0.00002	-0.00002
	(B0 * !Y)	0.00073	0.00083	0.00121
	(!A0 * !B0 * Y)	0.00014	0.00025	0.00064
	(!A0 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * Y)	0.00083	0.00094	0.00133

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7R	(B0 * !Y)	0.00081	0.00092	0.00132
	(B0 * !Y)	-0.00004	-0.00004	-0.00004
	(B0 * !Y)	0.00002	0.00002	0.00002
	(B0 * !Y)	0.00011	0.00022	0.00063
	(!A0 * !B0 * Y)	0.00063	0.00075	0.00117
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * Y)	-0.00007	0.00005	0.00047

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7R	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1N * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1N * !Y)	0.00032	0.00032	0.00033

Passive power(pJ) for B0 falling (conditional):

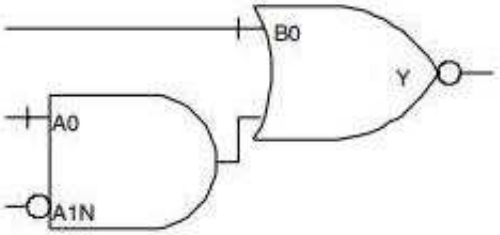
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1H7R	(A0 * !A1N * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1N * !Y)	0.00002	0.00003	0.00003
	(A0 * !A1N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1N * !Y)	-0.00033	-0.00032	-0.00032

AOI2XB1X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X1P4H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X1P4H7R	0.00083	0.00082	0.00094	0.03463

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X1P4H7R	0.00000	0.25495	0.47028

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X1P4H7R	A0->Y (FR)	0.03178	0.19112	0.66587
	A1N->Y (RR)	0.04437	0.18273	0.52236
	B0->Y (FR)	0.02684	0.18770	0.67700

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X1P4H7R	A0->Y (RF)	0.02303	0.13852	0.51386
	A1N->Y (FF)	0.04197	0.15056	0.41476
	B0->Y (RF)	0.01163	0.08894	0.39071

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7R	A0	0.00110	0.00114	0.00139
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00011	0.00012	0.00012
	A0	0.00001	0.00005	0.00029
	A1N	0.00107	0.00119	0.00160
	A1N	-0.00012	-0.00011	-0.00011
	A1N	0.00004	0.00004	0.00004
	A1N	0.00115	0.00128	0.00165
	B0	0.00076	0.00086	0.00146
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00011	0.00011	0.00011
	B0	0.00001	0.00011	0.00071

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7R	A0	0.00007	0.00011	0.00035
	A0	0.00013	0.00013	0.00013
	A0	-0.00012	-0.00012	-0.00011
	A0	0.00111	0.00118	0.00143
	A1N	0.00097	0.00110	0.00151
	A1N	0.00011	0.00011	0.00013
	A1N	-0.00004	-0.00004	-0.00004
	A1N	0.00086	0.00098	0.00142
	B0	0.00004	0.00013	0.00065
	B0	0.00003	0.00003	0.00006
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00085	0.00096	0.00150

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7R	(A1N * B0 * !Y)	-0.00017	-0.00017	-0.00017
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1N * B0 * !Y)	0.00001	0.00001	0.00002
	(A1N * B0 * !Y)	0.00025	0.00025	0.00025
	(A1N * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	0.00023	0.00023	0.00023
	(!A1N * B0 * !Y)	-0.00018	-0.00017	-0.00014
	(!A1N * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00023	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7R	(A1N * B0 * !Y)	0.00017	0.00017	0.00017
	(A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(A1N * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1N * B0 * !Y)	-0.00025	-0.00025	-0.00024
	(A1N * !B0 * Y)	0.00020	0.00021	0.00021
	(A1N * !B0 * Y)	0.00000	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	-0.00022	-0.00022	-0.00021
	(!A1N * B0 * !Y)	0.00018	0.00018	0.00018
	(!A1N * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * B0 * !Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7R	(B0 * !Y)	0.00005	0.00015	0.00053
	(B0 * !Y)	0.00004	0.00004	0.00004
	(B0 * !Y)	-0.00002	-0.00002	-0.00002
	(B0 * !Y)	0.00074	0.00085	0.00122
	(!A0 * !B0 * Y)	0.00016	0.00027	0.00065
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * Y)	0.00086	0.00097	0.00135

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7R	(B0 * !Y)	0.00083	0.00094	0.00134
	(B0 * !Y)	-0.00004	-0.00004	-0.00004
	(B0 * !Y)	0.00002	0.00002	0.00002
	(B0 * !Y)	0.00012	0.00023	0.00063
	(!A0 * !B0 * Y)	0.00064	0.00075	0.00117
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * Y)	-0.00006	0.00005	0.00047

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7R	(A0 * !A1N * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1N * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1N * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1N * !Y)	0.00034	0.00034	0.00034

Passive power(pJ) for B0 falling (conditional):

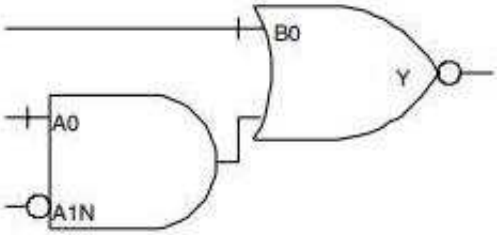
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X1P4H7R	(A0 * !A1N * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1N * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1N * !Y)	-0.00034	-0.00034	-0.00034

AOI2XB1X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X2H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X2H7R	0.00093	0.00083	0.00099	0.04061

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X2H7R	0.00000	0.28500	0.53799

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X2H7R	A0->Y (FR)	0.02933	0.18876	0.66543
	A1N->Y (RR)	0.04309	0.18337	0.52684
	B0->Y (FR)	0.02421	0.18514	0.67689

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X2H7R	A0->Y (RF)	0.02103	0.13409	0.50492
	A1N->Y (FF)	0.04150	0.14967	0.41174
	B0->Y (RF)	0.01051	0.08577	0.38446

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X2H7R	A0	0.00119	0.00125	0.00154
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00014	0.00014	0.00014
	A0	-0.00005	0.00001	0.00029
	A1N	0.00116	0.00129	0.00166
	A1N	-0.00014	-0.00014	-0.00012
	A1N	0.00005	0.00005	0.00005
	A1N	0.00120	0.00132	0.00169
	B0	0.00078	0.00090	0.00165
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00014	0.00014	0.00014
	B0	-0.00002	0.00010	0.00083

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X2H7R	A0	0.00007	0.00013	0.00042
	A0	0.00016	0.00016	0.00016
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00122	0.00134	0.00164
	A1N	0.00105	0.00118	0.00157
	A1N	0.00012	0.00014	0.00014
	A1N	-0.00005	-0.00005	-0.00005
	A1N	0.00098	0.00110	0.00150
	B0	0.00004	0.00015	0.00079
	B0	0.00003	0.00005	0.00021
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00089	0.00106	0.00172

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7R	(A1N * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1N * B0 * !Y)	0.00001	0.00002	0.00002
	(A1N * B0 * !Y)	0.00028	0.00028	0.00028
	(A1N * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	0.00026	0.00026	0.00026
	(!A1N * B0 * !Y)	-0.00021	-0.00020	-0.00017
	(!A1N * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00026	0.00026	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7R	(A1N * B0 * !Y)	0.00020	0.00020	0.00020
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1N * B0 * !Y)	-0.00028	-0.00028	-0.00027
	(A1N * !B0 * Y)	0.00023	0.00024	0.00024
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	-0.00025	-0.00025	-0.00023
	(!A1N * B0 * !Y)	0.00021	0.00021	0.00021
	(!A1N * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * B0 * !Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7R	(B0 * !Y)	0.00008	0.00018	0.00054
	(B0 * !Y)	0.00004	0.00005	0.00005
	(B0 * !Y)	-0.00002	-0.00002	-0.00002
	(B0 * !Y)	0.00080	0.00090	0.00126
	(!A0 * !B0 * Y)	0.00020	0.00031	0.00068
	(!A0 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * Y)	0.00093	0.00103	0.00141

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7R	(B0 * !Y)	0.00088	0.00098	0.00137
	(B0 * !Y)	-0.00005	-0.00005	-0.00004
	(B0 * !Y)	0.00002	0.00002	0.00002
	(B0 * !Y)	0.00014	0.00025	0.00064
	(!A0 * !B0 * Y)	0.00066	0.00077	0.00118
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * Y)	-0.00007	0.00005	0.00045

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7R	(A0 * !A1N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1N * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1N * !Y)	0.00036	0.00036	0.00036

Passive power(pJ) for B0 falling (conditional):

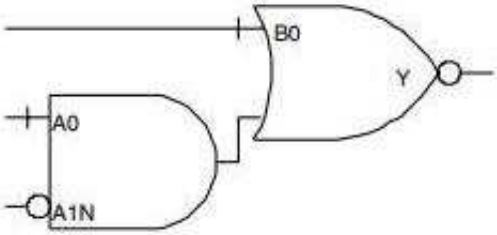
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X2H7R	(A0 * !A1N * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1N * !Y)	0.00003	0.00003	0.00004
	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1N * !Y)	-0.00036	-0.00036	-0.00035

AOI2XB1X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X3H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X3H7R	0.00160	0.00090	0.00163	0.06318

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X3H7R	0.00000	0.41882	0.83624

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X3H7R	A0->Y (FR)	0.03010	0.19015	0.66719
	A1N->Y (RR)	0.04323	0.18542	0.53270
	B0->Y (FR)	0.02473	0.18698	0.68072

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X3H7R	A0->Y (RF)	0.02266	0.13665	0.51030
	A1N->Y (FF)	0.04232	0.15368	0.42200
	B0->Y (RF)	0.01044	0.08604	0.38745

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X3H7R	A0	0.00203	0.00213	0.00261
	A0	-0.00024	-0.00024	-0.00024
	A0	0.00021	0.00021	0.00021
	A0	-0.00006	0.00003	0.00049
	A1N	0.00198	0.00215	0.00259
	A1N	-0.00023	-0.00021	-0.00018
	A1N	0.00008	0.00008	0.00009
	A1N	0.00167	0.00184	0.00227
	B0	0.00135	0.00157	0.00278
	B0	-0.00006	-0.00006	-0.00004
	B0	0.00021	0.00021	0.00021
	B0	-0.00002	0.00019	0.00137

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X3H7R	A0	0.00019	0.00027	0.00072
	A0	0.00024	0.00024	0.00024
	A0	-0.00021	-0.00021	-0.00021
	A0	0.00217	0.00233	0.00279
	A1N	0.00142	0.00157	0.00205
	A1N	0.00018	0.00021	0.00024
	A1N	-0.00008	-0.00008	-0.00008
	A1N	0.00168	0.00182	0.00231
	B0	0.00014	0.00032	0.00133
	B0	0.00005	0.00006	0.00009
	B0	-0.00010	-0.00010	-0.00008
	B0	0.00161	0.00186	0.00290

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7R	(A1N * B0 * !Y)	-0.00033	-0.00033	-0.00033
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1N * B0 * !Y)	0.00001	0.00002	0.00003
	(A1N * B0 * !Y)	0.00051	0.00052	0.00052
	(A1N * !B0 * Y)	-0.00038	-0.00038	-0.00038
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	0.00001	0.00002	0.00002
	(A1N * !B0 * Y)	0.00047	0.00047	0.00048
	(!A1N * B0 * !Y)	-0.00031	-0.00028	-0.00023
	(!A1N * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00052	0.00053	0.00054

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7R	(A1N * B0 * !Y)	0.00033	0.00033	0.00034
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	-0.00003	-0.00002	-0.00001
	(A1N * B0 * !Y)	-0.00052	-0.00051	-0.00049
	(A1N * !B0 * Y)	0.00039	0.00040	0.00041
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A1N * !B0 * Y)	-0.00047	-0.00045	-0.00042
	(!A1N * B0 * !Y)	0.00030	0.00031	0.00031
	(!A1N * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * B0 * !Y)	-0.00052	-0.00052	-0.00051

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7R	(B0 * !Y)	0.00015	0.00026	0.00068
	(B0 * !Y)	0.00006	0.00006	0.00007
	(B0 * !Y)	-0.00003	-0.00003	-0.00003
	(B0 * !Y)	0.00094	0.00105	0.00148
	(!A0 * !B0 * Y)	0.00037	0.00049	0.00093
	(!A0 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * Y)	0.00117	0.00129	0.00173

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7R	(B0 * !Y)	0.00117	0.00129	0.00173
	(B0 * !Y)	-0.00007	-0.00006	-0.00006
	(B0 * !Y)	0.00003	0.00003	0.00003
	(B0 * !Y)	0.00035	0.00048	0.00093
	(!A0 * !B0 * Y)	0.00079	0.00092	0.00139
	(!A0 * !B0 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !B0 * Y)	-0.00001	0.00012	0.00059

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7R	(A0 * !A1N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1N * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1N * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1N * !Y)	0.00061	0.00062	0.00062

Passive power(pJ) for B0 falling (conditional):

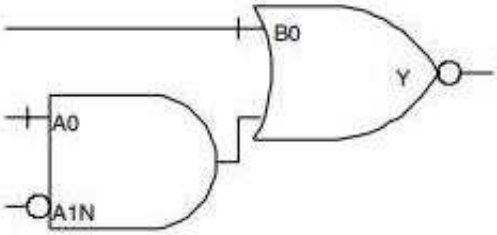
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X3H7R	(A0 * !A1N * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1N * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1N * !Y)	-0.00062	-0.00061	-0.00061

AOI2XB1X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X4H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X4H7R	0.00183	0.00097	0.00194	0.07788

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X4H7R	0.00000	0.52582	1.05860

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X4H7R	A0->Y (FR)	0.02733	0.18367	0.65301
	A1N->Y (RR)	0.03976	0.17773	0.51438
	B0->Y (FR)	0.02232	0.18069	0.66775

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X4H7R	A0->Y (RF)	0.02051	0.13021	0.49453
	A1N->Y (FF)	0.03922	0.14687	0.40521
	B0->Y (RF)	0.00955	0.08192	0.37496

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X4H7R	A0	0.00240	0.00250	0.00312
	A0	-0.00034	-0.00032	-0.00031
	A0	0.00027	0.00028	0.00028
	A0	-0.00014	-0.00003	0.00057
	A1N	0.00233	0.00253	0.00307
	A1N	-0.00032	-0.00028	-0.00025
	A1N	0.00011	0.00011	0.00011
	A1N	0.00182	0.00202	0.00255
	B0	0.00160	0.00185	0.00340
	B0	-0.00008	-0.00008	-0.00006
	B0	0.00027	0.00027	0.00028
	B0	-0.00008	0.00019	0.00172

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X4H7R	A0	0.00022	0.00032	0.00091
	A0	0.00031	0.00032	0.00035
	A0	-0.00028	-0.00028	-0.00027
	A0	0.00265	0.00280	0.00340
	A1N	0.00160	0.00179	0.00237
	A1N	0.00025	0.00028	0.00033
	A1N	-0.00011	-0.00011	-0.00011
	A1N	0.00204	0.00222	0.00281
	B0	0.00013	0.00036	0.00168
	B0	0.00006	0.00008	0.00011
	B0	-0.00014	-0.00014	-0.00012
	B0	0.00189	0.00221	0.00357

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7R	(A1N * B0 * !Y)	-0.00042	-0.00042	-0.00041
	(A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1N * B0 * !Y)	0.00003	0.00003	0.00004
	(A1N * B0 * !Y)	0.00054	0.00055	0.00056
	(A1N * !B0 * Y)	-0.00047	-0.00047	-0.00046
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	0.00002	0.00002	0.00003
	(A1N * !B0 * Y)	0.00051	0.00052	0.00052
	(!A1N * B0 * !Y)	-0.00038	-0.00034	-0.00029
	(!A1N * B0 * !Y)	-0.00005	-0.00004	-0.00004
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00002
	(!A1N * B0 * !Y)	0.00056	0.00057	0.00059

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7R	(A1N * B0 * !Y)	0.00042	0.00042	0.00042
	(A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(A1N * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1N * B0 * !Y)	-0.00055	-0.00054	-0.00052
	(A1N * !B0 * Y)	0.00047	0.00048	0.00050
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(A1N * !B0 * Y)	-0.00050	-0.00048	-0.00045
	(!A1N * B0 * !Y)	0.00038	0.00038	0.00038
	(!A1N * B0 * !Y)	0.00004	0.00004	0.00005
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	-0.00056	-0.00056	-0.00056

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7R	(B0 * !Y)	0.00020	0.00033	0.00084
	(B0 * !Y)	0.00008	0.00008	0.00009
	(B0 * !Y)	-0.00004	-0.00004	-0.00004
	(B0 * !Y)	0.00107	0.00120	0.00171
	(!A0 * !B0 * Y)	0.00046	0.00060	0.00114
	(!A0 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !B0 * Y)	0.00134	0.00148	0.00202

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7R	(B0 * !Y)	0.00131	0.00145	0.00197
	(B0 * !Y)	-0.00009	-0.00008	-0.00008
	(B0 * !Y)	0.00004	0.00004	0.00004
	(B0 * !Y)	0.00041	0.00056	0.00109
	(!A0 * !B0 * Y)	0.00086	0.00102	0.00157
	(!A0 * !B0 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !B0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !B0 * Y)	-0.00002	0.00014	0.00069

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7R	(A0 * !A1N * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1N * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * !A1N * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1N * !Y)	0.00071	0.00071	0.00071

Passive power(pJ) for B0 falling (conditional):

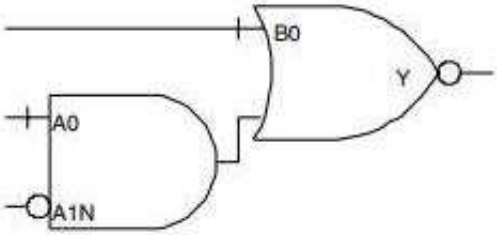
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X4H7R	(A0 * !A1N * !Y)	0.00003	0.00003	0.00004
	(A0 * !A1N * !Y)	0.00008	0.00008	0.00008
	(A0 * !A1N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1N * !Y)	-0.00071	-0.00071	-0.00070

AOI2XB1X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI2XB1 cell provides the logical inverted OR of one AND group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
0	x	0	1
0	x	1	0
1	0	x	0
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
AOI2XB1X6H7R	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
AOI2XB1X6H7R	0.00271	0.00105	0.00282	0.12145

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI2XB1X6H7R	0.00000	0.74307	1.56694

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X6H7R	A0->Y (FR)	0.02539	0.18589	0.66728
	A1N->Y (RR)	0.04039	0.18594	0.54067
	B0->Y (FR)	0.01991	0.18235	0.68023

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI2XB1X6H7R	A0->Y (RF)	0.01971	0.13287	0.50633
	A1N->Y (FF)	0.04111	0.15526	0.42817
	B0->Y (RF)	0.00871	0.08275	0.38359

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X6H7R	A0	0.00342	0.00358	0.00454
	A0	-0.00047	-0.00047	-0.00047
	A0	0.00041	0.00041	0.00042
	A0	-0.00030	-0.00014	0.00080
	A1N	0.00343	0.00369	0.00433
	A1N	-0.00043	-0.00043	-0.00043
	A1N	0.00017	0.00017	0.00018
	A1N	0.00239	0.00265	0.00325
	B0	0.00218	0.00258	0.00503
	B0	-0.00012	-0.00012	-0.00008
	B0	0.00041	0.00041	0.00041
	B0	-0.00021	0.00020	0.00260

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI2XB1X6H7R	A0	0.00037	0.00052	0.00145
	A0	0.00047	0.00047	0.00047
	A0	-0.00042	-0.00041	-0.00041
	A0	0.00390	0.00416	0.00511
	A1N	0.00218	0.00240	0.00309
	A1N	0.00043	0.00043	0.00043
	A1N	-0.00018	-0.00017	-0.00017
	A1N	0.00311	0.00332	0.00402
	B0	0.00022	0.00058	0.00264
	B0	0.00008	0.00012	0.00017
	B0	-0.00021	-0.00020	-0.00020
	B0	0.00284	0.00328	0.00540

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7R	(A1N * B0 * !Y)	-0.00062	-0.00062	-0.00062
	(A1N * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1N * B0 * !Y)	0.00004	0.00005	0.00006
	(A1N * B0 * !Y)	0.00080	0.00080	0.00081
	(A1N * !B0 * Y)	-0.00069	-0.00068	-0.00068
	(A1N * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1N * !B0 * Y)	0.00003	0.00004	0.00004
	(A1N * !B0 * Y)	0.00074	0.00075	0.00076
	(!A1N * B0 * !Y)	-0.00055	-0.00050	-0.00042
	(!A1N * B0 * !Y)	-0.00008	-0.00007	-0.00006
	(!A1N * B0 * !Y)	0.00001	0.00002	0.00002
	(!A1N * B0 * !Y)	0.00084	0.00085	0.00088

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7R	(A1N * B0 * !Y)	0.00062	0.00062	0.00063
	(A1N * B0 * !Y)	0.00002	0.00002	0.00002
	(A1N * B0 * !Y)	-0.00006	-0.00005	-0.00004
	(A1N * B0 * !Y)	-0.00080	-0.00078	-0.00073
	(A1N * !B0 * Y)	0.00070	0.00071	0.00075
	(A1N * !B0 * Y)	0.00002	0.00002	0.00002
	(A1N * !B0 * Y)	-0.00004	-0.00004	-0.00003
	(A1N * !B0 * Y)	-0.00074	-0.00070	-0.00066
	(!A1N * B0 * !Y)	0.00054	0.00055	0.00056
	(!A1N * B0 * !Y)	0.00006	0.00007	0.00008
	(!A1N * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1N * B0 * !Y)	-0.00084	-0.00084	-0.00083

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7R	(B0 * !Y)	0.00036	0.00050	0.00106
	(B0 * !Y)	0.00011	0.00011	0.00012
	(B0 * !Y)	-0.00005	-0.00005	-0.00005
	(B0 * !Y)	0.00134	0.00148	0.00204
	(!A0 * !B0 * Y)	0.00076	0.00092	0.00151
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * Y)	0.00177	0.00192	0.00252

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7R	(B0 * !Y)	0.00170	0.00185	0.00241
	(B0 * !Y)	-0.00012	-0.00011	-0.00011
	(B0 * !Y)	0.00005	0.00005	0.00005
	(B0 * !Y)	0.00068	0.00084	0.00142
	(!A0 * !B0 * Y)	0.00101	0.00118	0.00179
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * Y)	0.00012	0.00013	0.00013
	(!A0 * !B0 * Y)	0.00000	0.00017	0.00078

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7R	(A0 * !A1N * !Y)	-0.00005	-0.00004	-0.00004
	(A0 * !A1N * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1N * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1N * !Y)	0.00105	0.00105	0.00106

Passive power(pJ) for B0 falling (conditional):

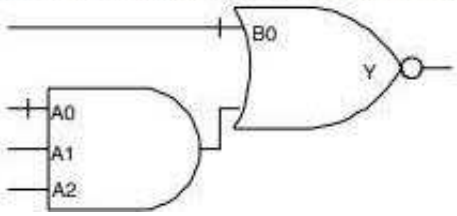
Cell Name	When	Power(pJ)		
		min	avg	max
AOI2XB1X6H7R	(A0 * !A1N * !Y)	0.00004	0.00005	0.00005
	(A0 * !A1N * !Y)	0.00010	0.00010	0.00011
	(A0 * !A1N * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1N * !Y)	-0.00105	-0.00104	-0.00103

AOI31X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X0P5H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X0P5H7R	0.00062	0.00063	0.00070	0.00072	0.02142

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X0P5H7R	0.00000	0.11080	0.28639

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X0P5H7R	A0->Y (FR)	0.04145	0.19523	0.64601
	A1->Y (FR)	0.03869	0.19114	0.64204
	A2->Y (FR)	0.03650	0.18743	0.63963
	B0->Y (FR)	0.03513	0.19079	0.65906

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X0P5H7R	A0->Y (RF)	0.03847	0.17568	0.57961
	A1->Y (RF)	0.03698	0.18101	0.61867
	A2->Y (RF)	0.03520	0.17700	0.61401
	B0->Y (RF)	0.01346	0.08865	0.37994

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X0P5H7R	A0	0.00107	0.00111	0.00125
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00011	0.00011	0.00011
	A0	-0.00002	-0.00000	0.00014
	A1	0.00098	0.00101	0.00115
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00007	0.00007	0.00007
	A1	0.00003	0.00005	0.00019
	A2	0.00089	0.00093	0.00110
	A2	-0.00010	-0.00010	-0.00010
	A2	0.00001	0.00003	0.00004
	A2	0.00003	0.00008	0.00023
	B0	0.00075	0.00081	0.00113
	B0	-0.00002	-0.00002	0.00000
	B0	0.00011	0.00011	0.00011
	B0	-0.00011	-0.00003	0.00038

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X0P5H7R	A0	-0.00007	-0.00005	0.00008
	A0	0.00010	0.00010	0.00010
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00101	0.00105	0.00117
	A1	-0.00007	-0.00004	0.00010
	A1	0.00010	0.00010	0.00010
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00084	0.00089	0.00104
	A2	-0.00008	-0.00003	0.00019
	A2	0.00010	0.00010	0.00010
	A2	-0.00004	-0.00003	-0.00001
	A2	0.00072	0.00078	0.00102
	B0	-0.00006	0.00001	0.00039
	B0	0.00000	0.00002	0.00006
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00078	0.00086	0.00121

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7R	(A1 * A2 * B0 * !Y)	-0.00009	-0.00008	-0.00006
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !Y)	0.00024	0.00024	0.00025
	(A1 * !A2 * B0 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00022	0.00022	0.00022
	(A1 * !A2 * !B0 * Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00022	0.00023	0.00023
	(!A1 * !A2 * !B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7R	(A1 * A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !A2 * B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	-0.00022	-0.00021	-0.00020
	(A1 * !A2 * !B0 * Y)	0.00011	0.00011	0.00011
	(A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * B0 * !Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * A2 * !B0 * Y)	0.00011	0.00011	0.00011
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !A2 * !B0 * Y)	0.00011	0.00011	0.00011
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7R	(A0 * A2 * B0 * !Y)	-0.00009	-0.00008	-0.00006
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * B0 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * !B0 * Y)	-0.00011	-0.00011	-0.00011
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00018	0.00018	0.00019
	(!A0 * A2 * B0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * !B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * B0 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * !B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7R	(A0 * A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !A2 * B0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A2 * !B0 * Y)	0.00011	0.00012	0.00012
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A2 * B0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A2 * !B0 * Y)	0.00011	0.00012	0.00012
	(!A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A2 * B0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * B0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A2 * !B0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7R	(A0 * A1 * B0 * !Y)	-0.00009	-0.00008	-0.00006
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00021	0.00022	0.00022
	(!A1 * B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00006	0.00006	0.00007
	(!A0 * A1 * B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7R	(A0 * A1 * B0 * !Y)	0.00009	0.00009	0.00009
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * A1 * B0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7R	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00001	-0.00002	-0.00001
	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00030	0.00030	0.00030

Passive power(pJ) for B0 falling (conditional):

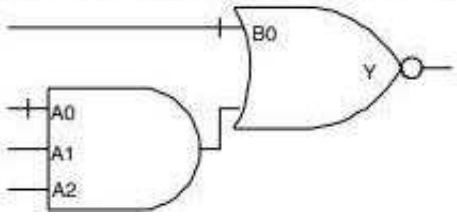
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P5H7R	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * !Y)	-0.00030	-0.00030	-0.00030

AOI31X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X0P7H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X0P7H7R	0.00065	0.00066	0.00073	0.00075	0.02427

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X0P7H7R	0.00000	0.12538	0.32280

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X0P7H7R	A0->Y (FR)	0.03803	0.19221	0.64667
	A1->Y (FR)	0.03540	0.18817	0.64288
	A2->Y (FR)	0.03285	0.18398	0.63833
	B0->Y (FR)	0.03208	0.18816	0.65947

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X0P7H7R	A0->Y (RF)	0.03501	0.17193	0.57734
	A1->Y (RF)	0.03363	0.17723	0.61608
	A2->Y (RF)	0.03145	0.17253	0.60962
	B0->Y (RF)	0.01229	0.08670	0.37830

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X0P7H7R	A0	0.00112	0.00115	0.00131
	A0	-0.00012	-0.00011	-0.00011
	A0	0.00012	0.00013	0.00013
	A0	-0.00006	-0.00004	0.00012
	A1	0.00101	0.00104	0.00121
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00008	0.00008	0.00009
	A1	-0.00002	0.00002	0.00018
	A2	0.00090	0.00095	0.00115
	A2	-0.00011	-0.00011	-0.00011
	A2	0.00001	0.00004	0.00004
	A2	-0.00001	0.00004	0.00023
	B0	0.00078	0.00084	0.00120
	B0	-0.00002	-0.00002	0.00000
	B0	0.00012	0.00013	0.00013
	B0	-0.00014	-0.00005	0.00042

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X0P7H7R	A0	-0.00008	-0.00005	0.00009
	A0	0.00011	0.00011	0.00012
	A0	-0.00013	-0.00013	-0.00012
	A0	0.00108	0.00112	0.00127
	A1	-0.00008	-0.00005	0.00012
	A1	0.00011	0.00011	0.00011
	A1	-0.00009	-0.00008	-0.00008
	A1	0.00089	0.00095	0.00112
	A2	-0.00008	-0.00004	0.00022
	A2	0.00011	0.00011	0.00011
	A2	-0.00004	-0.00004	-0.00001
	A2	0.00078	0.00084	0.00111
	B0	-0.00007	0.00001	0.00046
	B0	0.00002	0.00003	0.00017
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00084	0.00093	0.00133

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7R	(A1 * A2 * B0 * !Y)	-0.00010	-0.00009	-0.00007
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * B0 * !Y)	-0.00012	-0.00012	-0.00012
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00022	0.00022	0.00023
	(A1 * !A2 * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !A2 * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7R	(A1 * A2 * B0 * !Y)	0.00010	0.00010	0.00010
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00025	-0.00024	-0.00024
	(A1 * !A2 * B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	-0.00023	-0.00022	-0.00021
	(A1 * !A2 * !B0 * Y)	0.00012	0.00013	0.00013
	(A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * !Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * A2 * !B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !A2 * !B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00023	-0.00022	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7R	(A0 * A2 * B0 * !Y)	-0.00010	-0.00009	-0.00007
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00020	0.00020	0.00021
	(A0 * !A2 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A2 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * Y)	0.00008	0.00009	0.00009

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7R	(A0 * A2 * B0 * !Y)	0.00010	0.00010	0.00010
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	-0.00018	-0.00018	-0.00017
	(A0 * !A2 * !B0 * Y)	0.00013	0.00013	0.00014
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A2 * !B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A2 * !B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * Y)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7R	(A0 * A1 * B0 * !Y)	-0.00010	-0.00009	-0.00007
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7R	(A0 * A1 * B0 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7R	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * A2 * !Y)	0.00031	0.00031	0.00032

Passive power(pJ) for B0 falling (conditional):

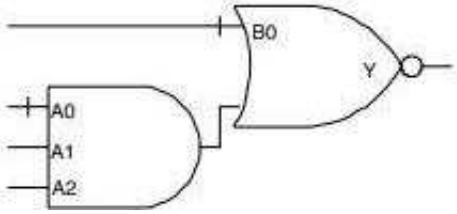
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X0P7H7R	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * !Y)	-0.00031	-0.00031	-0.00031

AOI31X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X1H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X1H7R	0.00069	0.00073	0.00079	0.00088	0.02879

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X1H7R	0.00000	0.14628	0.37272

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X1H7R	A0->Y (FR)	0.03610	0.19069	0.64785
	A1->Y (FR)	0.03380	0.18695	0.64497
	A2->Y (FR)	0.03064	0.18213	0.64004
	B0->Y (FR)	0.03104	0.18731	0.66064

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X1H7R	A0->Y (RF)	0.03375	0.17245	0.58323
	A1->Y (RF)	0.03268	0.17795	0.62067
	A2->Y (RF)	0.02976	0.17240	0.61574
	B0->Y (RF)	0.01201	0.08724	0.38135

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X1H7R	A0	0.00128	0.00134	0.00152
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00015	0.00015	0.00015
	A0	-0.00006	-0.00003	0.00015
	A1	0.00118	0.00122	0.00141
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00010	0.00010	0.00010
	A1	-0.00001	0.00003	0.00021
	A2	0.00105	0.00110	0.00134
	A2	-0.00014	-0.00014	-0.00014
	A2	0.00005	0.00005	0.00011
	A2	-0.00003	0.00004	0.00027
	B0	0.00094	0.00102	0.00143
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00015	0.00015	0.00015
	B0	-0.00010	0.00001	0.00055

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X1H7R	A0	-0.00009	-0.00007	0.00009
	A0	0.00014	0.00014	0.00014
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00123	0.00128	0.00145
	A1	-0.00010	-0.00006	0.00013
	A1	0.00014	0.00014	0.00014
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00103	0.00110	0.00129
	A2	-0.00010	-0.00005	0.00026
	A2	0.00014	0.00014	0.00014
	A2	-0.00005	-0.00005	-0.00005
	A2	0.00089	0.00096	0.00128
	B0	-0.00011	-0.00002	0.00050
	B0	0.00003	0.00003	0.00004
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00092	0.00103	0.00149

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7R	(A1 * A2 * B0 * !Y)	-0.00012	-0.00010	-0.00008
	(A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * B0 * !Y)	-0.00015	-0.00015	-0.00015
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00022	0.00022	0.00022
	(A1 * !A2 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !A2 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7R	(A1 * A2 * B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * A2 * B0 * !Y)	0.00001	0.00002	0.00002
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * !A2 * B0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	-0.00022	-0.00021	-0.00020
	(A1 * !A2 * !B0 * Y)	0.00015	0.00015	0.00015
	(A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * B0 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * A2 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !A2 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00022	-0.00021	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7R	(A0 * A2 * B0 * !Y)	-0.00012	-0.00011	-0.00008
	(A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * B0 * !Y)	-0.00016	-0.00016	-0.00015
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * !B0 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * B0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * !B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7R	(A0 * A2 * B0 * !Y)	0.00012	0.00012	0.00012
	(A0 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * B0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * !A2 * !B0 * Y)	0.00016	0.00017	0.00018
	(A0 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	-0.00017	-0.00017	-0.00015
	(!A0 * A2 * B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A2 * !B0 * Y)	0.00016	0.00016	0.00017
	(!A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7R	(A0 * A1 * B0 * !Y)	-0.00013	-0.00011	-0.00008
	(A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * B0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * Y)	0.00005	0.00005	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7R	(A0 * A1 * B0 * !Y)	0.00012	0.00013	0.00013
	(A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !Y)	-0.00001	0.00000	0.00005
	(A0 * A1 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A1 * !B0 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7R	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * !Y)	0.00032	0.00032	0.00032

Passive power(pJ) for B0 falling (conditional):

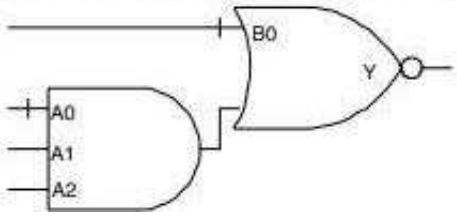
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1H7R	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * !Y)	-0.00032	-0.00032	-0.00032

AOI31X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X1P4H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X1P4H7R	0.00074	0.00077	0.00085	0.00094	0.03283

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X1P4H7R	0.00000	0.16635	0.42224

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X1P4H7R	A0->Y (FR)	0.03397	0.18885	0.64853
	A1->Y (FR)	0.03148	0.18488	0.64509
	A2->Y (FR)	0.02841	0.18009	0.64035
	B0->Y (FR)	0.02922	0.18581	0.66164

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X1P4H7R	A0->Y (RF)	0.03150	0.16955	0.57999
	A1->Y (RF)	0.03016	0.17472	0.61900
	A2->Y (RF)	0.02735	0.16909	0.61104
	B0->Y (RF)	0.01135	0.08562	0.37973

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X1P4H7R	A0	0.00139	0.00145	0.00166
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00017	0.00017	0.00017
	A0	-0.00009	-0.00006	0.00015
	A1	0.00126	0.00131	0.00153
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00011	0.00012	0.00012
	A1	-0.00004	-0.00000	0.00021
	A2	0.00112	0.00118	0.00146
	A2	-0.00016	-0.00016	-0.00016
	A2	0.00003	0.00006	0.00012
	A2	-0.00006	0.00001	0.00029
	B0	0.00102	0.00111	0.00159
	B0	-0.00003	-0.00003	0.00000
	B0	0.00017	0.00017	0.00017
	B0	-0.00011	0.00001	0.00064

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X1P4H7R	A0	-0.00011	-0.00007	0.00011
	A0	0.00016	0.00016	0.00016
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00134	0.00141	0.00160
	A1	-0.00011	-0.00007	0.00015
	A1	0.00016	0.00016	0.00016
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00116	0.00120	0.00143
	A2	-0.00011	-0.00005	0.00031
	A2	0.00016	0.00016	0.00016
	A2	-0.00006	-0.00006	-0.00003
	A2	0.00094	0.00105	0.00143
	B0	-0.00012	-0.00001	0.00059
	B0	0.00000	0.00003	0.00005
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00100	0.00112	0.00165

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7R	(A1 * A2 * B0 * !Y)	-0.00013	-0.00012	-0.00009
	(A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00025	0.00025	0.00026
	(A1 * !A2 * B0 * !Y)	-0.00017	-0.00017	-0.00016
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * B0 * !Y)	0.00023	0.00023	0.00023
	(A1 * !A2 * !B0 * Y)	-0.00017	-0.00016	-0.00016
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A1 * !A2 * !B0 * Y)	-0.00017	-0.00017	-0.00016
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7R	(A1 * A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !A2 * B0 * !Y)	0.00016	0.00017	0.00017
	(A1 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	-0.00023	-0.00022	-0.00020
	(A1 * !A2 * !B0 * Y)	0.00017	0.00017	0.00017
	(A1 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * A2 * !B0 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !A2 * !B0 * Y)	0.00016	0.00017	0.00017
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00023	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7R	(A0 * A2 * B0 * !Y)	-0.00014	-0.00012	-0.00009
	(A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A2 * B0 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * B0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7R	(A0 * A2 * B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * B0 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	-0.00019	-0.00018	-0.00017
	(A0 * !A2 * !B0 * Y)	0.00017	0.00018	0.00019
	(A0 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A2 * B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A2 * !B0 * Y)	0.00017	0.00017	0.00018
	(!A0 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7R	(A0 * A1 * B0 * !Y)	-0.00014	-0.00012	-0.00009
	(A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7R	(A0 * A1 * B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * !Y)	-0.00001	0.00000	0.00006
	(A0 * A1 * B0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7R	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * !Y)	0.00034	0.00034	0.00034

Passive power(pJ) for B0 falling (conditional):

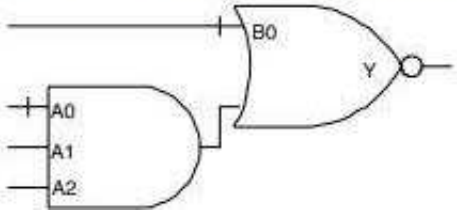
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X1P4H7R	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * !Y)	-0.00034	-0.00034	-0.00033

AOI31X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X2H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X2H7R	0.00085	0.00088	0.00099	0.00104	0.03848

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X2H7R	0.00000	0.19713	0.50027

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X2H7R	A0->Y (FR)	0.03243	0.18764	0.64965
	A1->Y (FR)	0.02988	0.18352	0.64611
	A2->Y (FR)	0.02688	0.17861	0.63982
	B0->Y (FR)	0.02727	0.18411	0.66159

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X2H7R	A0->Y (RF)	0.02931	0.16467	0.56987
	A1->Y (RF)	0.02789	0.16960	0.60760
	A2->Y (RF)	0.02526	0.16400	0.60136
	B0->Y (RF)	0.01050	0.08295	0.37310

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X2H7R	A0	0.00161	0.00166	0.00191
	A0	-0.00019	-0.00019	-0.00019
	A0	0.00020	0.00020	0.00021
	A0	-0.00011	-0.00008	0.00017
	A1	0.00142	0.00149	0.00175
	A1	-0.00019	-0.00019	-0.00019
	A1	0.00014	0.00014	0.00014
	A1	-0.00007	-0.00002	0.00024
	A2	0.00127	0.00134	0.00168
	A2	-0.00020	-0.00019	-0.00019
	A2	0.00007	0.00007	0.00008
	A2	-0.00007	0.00000	0.00033
	B0	0.00116	0.00125	0.00183
	B0	-0.00004	-0.00004	0.00000
	B0	0.00020	0.00020	0.00021
	B0	-0.00014	-0.00000	0.00075

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X2H7R	A0	-0.00013	-0.00009	0.00013
	A0	0.00019	0.00019	0.00019
	A0	-0.00021	-0.00020	-0.00020
	A0	0.00154	0.00162	0.00185
	A1	-0.00013	-0.00008	0.00018
	A1	0.00019	0.00019	0.00019
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00132	0.00138	0.00165
	A2	-0.00013	-0.00006	0.00036
	A2	0.00019	0.00019	0.00020
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00105	0.00121	0.00165
	B0	-0.00016	-0.00002	0.00071
	B0	0.00004	0.00004	0.00013
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00114	0.00128	0.00192

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7R	(A1 * A2 * B0 * !Y)	-0.00016	-0.00014	-0.00011
	(A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00027	0.00028	0.00028
	(A1 * !A2 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * !Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B0 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7R	(A1 * A2 * B0 * !Y)	0.00016	0.00016	0.00016
	(A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * B0 * !Y)	-0.00025	-0.00024	-0.00022
	(A1 * !A2 * !B0 * Y)	0.00020	0.00020	0.00020
	(A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B0 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * A2 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !A2 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00025	-0.00024	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7R	(A0 * A2 * B0 * !Y)	-0.00016	-0.00014	-0.00011
	(A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00023	0.00023	0.00024
	(A0 * !A2 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00022	0.00022	0.00022
	(!A0 * A2 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7R	(A0 * A2 * B0 * !Y)	0.00016	0.00016	0.00016
	(A0 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * !Y)	-0.00021	-0.00020	-0.00019
	(A0 * !A2 * !B0 * Y)	0.00020	0.00021	0.00022
	(A0 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A2 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * A2 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7R	(A0 * A1 * B0 * !Y)	-0.00017	-0.00014	-0.00011
	(A0 * A1 * B0 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00025	0.00026	0.00026
	(!A1 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * Y)	-0.00029	-0.00029	-0.00028
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7R	(A0 * A1 * B0 * !Y)	0.00016	0.00016	0.00017
	(A0 * A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * B0 * !Y)	-0.00001	0.00001	0.00007
	(A0 * A1 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * !Y)	-0.00023	-0.00021	-0.00019
	(!A0 * A1 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7R	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !Y)	0.00037	0.00037	0.00038

Passive power(pJ) for B0 falling (conditional):

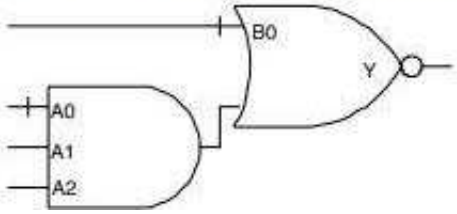
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X2H7R	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !Y)	-0.00037	-0.00037	-0.00037

AOI31X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X3H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X3H7R	0.00149	0.00151	0.00167	0.00167	0.05976

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X3H7R	0.00000	0.30882	0.78785

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X3H7R	A0->Y (FR)	0.03502	0.19057	0.64916
	A1->Y (FR)	0.03166	0.18517	0.64337
	A2->Y (FR)	0.02735	0.17914	0.63889
	B0->Y (FR)	0.02758	0.18509	0.66088

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X3H7R	A0->Y (RF)	0.03224	0.17125	0.58149
	A1->Y (RF)	0.03013	0.17477	0.61850
	A2->Y (RF)	0.02568	0.16785	0.61187
	B0->Y (RF)	0.01020	0.08311	0.37544

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X3H7R	A0	0.00301	0.00309	0.00345
	A0	-0.00029	-0.00029	-0.00029
	A0	0.00031	0.00031	0.00031
	A0	-0.00002	0.00005	0.00040
	A1	0.00261	0.00272	0.00311
	A1	-0.00029	-0.00029	-0.00029
	A1	0.00016	0.00021	0.00025
	A1	-0.00000	0.00009	0.00046
	A2	0.00225	0.00236	0.00288
	A2	-0.00029	-0.00029	-0.00029
	A2	0.00008	0.00011	0.00050
	A2	-0.00041	0.00006	0.00057
	B0	0.00210	0.00225	0.00317
	B0	-0.00006	-0.00006	-0.00004
	B0	0.00031	0.00031	0.00031
	B0	-0.00026	-0.00004	0.00121

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X3H7R	A0	-0.00021	-0.00015	0.00013
	A0	0.00029	0.00029	0.00029
	A0	-0.00031	-0.00031	-0.00031
	A0	0.00279	0.00288	0.00317
	A1	-0.00021	-0.00014	0.00024
	A1	0.00029	0.00029	0.00029
	A1	-0.00022	-0.00021	-0.00016
	A1	0.00228	0.00243	0.00282
	A2	-0.00022	-0.00010	0.00057
	A2	0.00029	0.00029	0.00029
	A2	-0.00010	-0.00010	-0.00008
	A2	0.00186	0.00209	0.00278
	B0	-0.00021	-0.00000	0.00119
	B0	0.00005	0.00006	0.00008
	B0	-0.00010	-0.00010	-0.00008
	B0	0.00208	0.00229	0.00332

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7R	(A1 * A2 * B0 * !Y)	-0.00026	-0.00022	-0.00017
	(A1 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00050	0.00051	0.00052
	(A1 * !A2 * B0 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !Y)	0.00043	0.00043	0.00044
	(A1 * !A2 * !B0 * Y)	-0.00033	-0.00033	-0.00032
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * Y)	0.00002	0.00003	0.00003
	(A1 * !A2 * !B0 * Y)	0.00043	0.00044	0.00044
	(!A1 * B0 * !Y)	-0.00033	-0.00032	-0.00032
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !Y)	0.00044	0.00044	0.00045
	(!A1 * A2 * !B0 * Y)	-0.00033	-0.00033	-0.00032
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * Y)	0.00045	0.00045	0.00045
	(!A1 * !A2 * !B0 * Y)	-0.00033	-0.00033	-0.00032
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !A2 * !B0 * Y)	0.00043	0.00044	0.00044

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7R	(A1 * A2 * B0 * !Y)	0.00025	0.00026	0.00026
	(A1 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00050	-0.00050	-0.00050
	(A1 * !A2 * B0 * !Y)	0.00032	0.00032	0.00033
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !Y)	-0.00043	-0.00041	-0.00037
	(A1 * !A2 * !B0 * Y)	0.00033	0.00033	0.00034
	(A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * !B0 * Y)	-0.00043	-0.00040	-0.00036
	(!A1 * B0 * !Y)	0.00032	0.00032	0.00033
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * !Y)	-0.00045	-0.00043	-0.00040
	(!A1 * A2 * !B0 * Y)	0.00033	0.00033	0.00033
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * Y)	-0.00044	-0.00042	-0.00038
	(!A1 * !A2 * !B0 * Y)	0.00033	0.00033	0.00033
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !A2 * !B0 * Y)	-0.00044	-0.00042	-0.00039

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7R	(A0 * A2 * B0 * !Y)	-0.00026	-0.00022	-0.00017
	(A0 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00048	0.00049	0.00050
	(A0 * !A2 * B0 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A2 * B0 * !Y)	0.00042	0.00043	0.00044
	(A0 * !A2 * !B0 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * Y)	0.00044	0.00044	0.00045
	(!A0 * A2 * B0 * !Y)	-0.00033	-0.00033	-0.00033
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A2 * B0 * !Y)	0.00042	0.00043	0.00043
	(!A0 * A2 * !B0 * Y)	-0.00036	-0.00035	-0.00035
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * A2 * !B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * !Y)	-0.00033	-0.00033	-0.00033
	(!A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * B0 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A2 * B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * !B0 * Y)	-0.00036	-0.00036	-0.00035
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A2 * !B0 * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7R	(A0 * A2 * B0 * !Y)	0.00026	0.00026	0.00026
	(A0 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	-0.00049	-0.00048	-0.00048
	(A0 * !A2 * B0 * !Y)	0.00033	0.00033	0.00033
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A2 * B0 * !Y)	-0.00044	-0.00042	-0.00039
	(A0 * !A2 * !B0 * Y)	0.00034	0.00035	0.00038
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * Y)	-0.00043	-0.00041	-0.00037
	(!A0 * A2 * B0 * !Y)	0.00033	0.00033	0.00034
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * B0 * !Y)	-0.00043	-0.00041	-0.00038
	(!A0 * A2 * !B0 * Y)	0.00035	0.00036	0.00036
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * !Y)	0.00033	0.00033	0.00033
	(!A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A2 * B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * Y)	0.00036	0.00037	0.00037
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A2 * !B0 * Y)	-0.00015	-0.00015	-0.00015

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7R	(A0 * A1 * B0 * !Y)	-0.00027	-0.00023	-0.00017
	(A0 * A1 * B0 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00051	0.00052	0.00053
	(!A1 * B0 * !Y)	-0.00035	-0.00034	-0.00034
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00001	0.00002	0.00003
	(!A1 * B0 * !Y)	0.00046	0.00047	0.00047
	(!A1 * !B0 * Y)	-0.00051	-0.00050	-0.00050
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * !Y)	-0.00035	-0.00034	-0.00034
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B0 * !Y)	0.00045	0.00046	0.00046
	(!A0 * A1 * !B0 * Y)	-0.00050	-0.00050	-0.00050
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7R	(A0 * A1 * B0 * !Y)	0.00026	0.00027	0.00027
	(A0 * A1 * B0 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00052	-0.00051	-0.00051
	(!A1 * B0 * !Y)	0.00034	0.00034	0.00035
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1 * B0 * !Y)	-0.00047	-0.00045	-0.00042
	(!A1 * !B0 * Y)	0.00050	0.00051	0.00051
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * B0 * !Y)	0.00034	0.00034	0.00035
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B0 * !Y)	-0.00045	-0.00043	-0.00038
	(!A0 * A1 * !B0 * Y)	0.00050	0.00051	0.00051
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7R	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !Y)	0.00063	0.00063	0.00064

Passive power(pJ) for B0 falling (conditional):

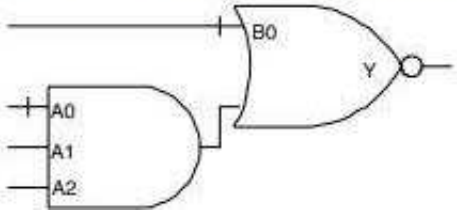
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X3H7R	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !Y)	-0.00064	-0.00063	-0.00062

AOI31X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI31 cell provides the logical inverted OR of one AND group and an additional input.
The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	x	x	0	1
x	x	x	1	0
1	0	x	0	1
1	1	0	0	1
1	1	1	x	0

Footprint

Cell Name	Area
AOI31X4H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
AOI31X4H7R	0.00173	0.00176	0.00192	0.00191	0.07647

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI31X4H7R	0.00000	0.39426	1.00054

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X4H7R	A0->Y (FR)	0.03157	0.18753	0.65047
	A1->Y (FR)	0.02848	0.18244	0.64567
	A2->Y (FR)	0.02427	0.17649	0.64014
	B0->Y (FR)	0.02454	0.18241	0.66213

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI31X4H7R	A0->Y (RF)	0.02861	0.16594	0.57443
	A1->Y (RF)	0.02666	0.16973	0.61199
	A2->Y (RF)	0.02252	0.16320	0.60718
	B0->Y (RF)	0.00918	0.08047	0.37144

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X4H7R	A0	0.00346	0.00358	0.00406
	A0	-0.00039	-0.00039	-0.00038
	A0	0.00040	0.00040	0.00041
	A0	-0.00012	-0.00004	0.00043
	A1	0.00305	0.00316	0.00367
	A1	-0.00040	-0.00039	-0.00038
	A1	0.00026	0.00028	0.00028
	A1	-0.00010	0.00001	0.00050
	A2	0.00257	0.00272	0.00344
	A2	-0.00039	-0.00039	-0.00038
	A2	0.00010	0.00014	0.00015
	A2	-0.00016	-0.00001	0.00069
	B0	0.00240	0.00261	0.00381
	B0	-0.00008	-0.00008	-0.00005
	B0	0.00040	0.00040	0.00041
	B0	-0.00033	-0.00005	0.00157

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI31X4H7R	A0	-0.00026	-0.00019	0.00020
	A0	0.00038	0.00039	0.00039
	A0	-0.00041	-0.00040	-0.00040
	A0	0.00330	0.00342	0.00382
	A1	-0.00026	-0.00017	0.00034
	A1	0.00038	0.00039	0.00040
	A1	-0.00028	-0.00028	-0.00026
	A1	0.00273	0.00289	0.00342
	A2	-0.00027	-0.00012	0.00075
	A2	0.00038	0.00039	0.00039
	A2	-0.00014	-0.00013	-0.00010
	A2	0.00225	0.00248	0.00338
	B0	-0.00027	-0.00001	0.00155
	B0	0.00006	0.00008	0.00011
	B0	-0.00014	-0.00014	-0.00012
	B0	0.00231	0.00268	0.00402

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7R	(A1 * A2 * B0 * !Y)	-0.00032	-0.00028	-0.00022
	(A1 * A2 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00056	0.00057	0.00058
	(A1 * !A2 * B0 * !Y)	-0.00040	-0.00040	-0.00040
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	0.00003	0.00004	0.00004
	(A1 * !A2 * B0 * !Y)	0.00048	0.00048	0.00049
	(A1 * !A2 * !B0 * Y)	-0.00041	-0.00040	-0.00040
	(A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * Y)	0.00003	0.00003	0.00004
	(A1 * !A2 * !B0 * Y)	0.00049	0.00049	0.00049
	(!A1 * B0 * !Y)	-0.00040	-0.00040	-0.00040
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !Y)	0.00049	0.00050	0.00050
	(!A1 * A2 * !B0 * Y)	-0.00041	-0.00040	-0.00040
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	0.00051	0.00051	0.00051
	(!A1 * !A2 * !B0 * Y)	-0.00041	-0.00040	-0.00040
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	0.00003	0.00003	0.00004
	(!A1 * !A2 * !B0 * Y)	0.00049	0.00049	0.00049

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7R	(A1 * A2 * B0 * !Y)	0.00032	0.00032	0.00032
	(A1 * A2 * B0 * !Y)	0.00004	0.00004	0.00004
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	-0.00056	-0.00056	-0.00055
	(A1 * !A2 * B0 * !Y)	0.00040	0.00040	0.00040
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00004	-0.00004	-0.00003
	(A1 * !A2 * B0 * !Y)	-0.00048	-0.00046	-0.00041
	(A1 * !A2 * !B0 * Y)	0.00041	0.00041	0.00041
	(A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !A2 * !B0 * Y)	-0.00049	-0.00045	-0.00040
	(!A1 * B0 * !Y)	0.00040	0.00040	0.00040
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !Y)	-0.00050	-0.00048	-0.00045
	(!A1 * A2 * !B0 * Y)	0.00041	0.00041	0.00041
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * Y)	-0.00049	-0.00047	-0.00043
	(!A1 * !A2 * !B0 * Y)	0.00041	0.00041	0.00041
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !A2 * !B0 * Y)	-0.00049	-0.00047	-0.00044

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7R	(A0 * A2 * B0 * !Y)	-0.00033	-0.00028	-0.00022
	(A0 * A2 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00002
	(A0 * A2 * B0 * !Y)	0.00054	0.00055	0.00056
	(A0 * !A2 * B0 * !Y)	-0.00041	-0.00041	-0.00041
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A2 * B0 * !Y)	0.00048	0.00049	0.00049
	(A0 * !A2 * !B0 * Y)	-0.00042	-0.00041	-0.00041
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * Y)	0.00050	0.00050	0.00050
	(!A0 * A2 * B0 * !Y)	-0.00041	-0.00041	-0.00041
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * B0 * !Y)	0.00047	0.00048	0.00048
	(!A0 * A2 * !B0 * Y)	-0.00044	-0.00043	-0.00043
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	0.00009	0.00010	0.00010
	(!A0 * A2 * !B0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !A2 * B0 * !Y)	-0.00041	-0.00041	-0.00041
	(!A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !A2 * !B0 * Y)	-0.00044	-0.00043	-0.00043
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B0 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7R	(A0 * A2 * B0 * !Y)	0.00032	0.00033	0.00033
	(A0 * A2 * B0 * !Y)	0.00004	0.00005	0.00005
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	-0.00054	-0.00054	-0.00054
	(A0 * !A2 * B0 * !Y)	0.00041	0.00041	0.00042
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A2 * B0 * !Y)	-0.00049	-0.00047	-0.00044
	(A0 * !A2 * !B0 * Y)	0.00042	0.00043	0.00046
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * Y)	-0.00049	-0.00046	-0.00041
	(!A0 * A2 * B0 * !Y)	0.00041	0.00041	0.00042
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * B0 * !Y)	-0.00048	-0.00046	-0.00042
	(!A0 * A2 * !B0 * Y)	0.00043	0.00044	0.00044
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * A2 * !B0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A2 * B0 * !Y)	0.00041	0.00041	0.00042
	(!A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A2 * !B0 * Y)	0.00044	0.00045	0.00045
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7R	(A0 * A1 * B0 * !Y)	-0.00033	-0.00029	-0.00022
	(A0 * A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * !Y)	0.00057	0.00058	0.00059
	(!A1 * B0 * !Y)	-0.00042	-0.00042	-0.00042
	(!A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !Y)	0.00003	0.00003	0.00004
	(!A1 * B0 * !Y)	0.00051	0.00052	0.00052
	(!A1 * !B0 * Y)	-0.00059	-0.00059	-0.00058
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * !Y)	-0.00042	-0.00042	-0.00042
	(!A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * !Y)	0.00050	0.00050	0.00051
	(!A0 * A1 * !B0 * Y)	-0.00059	-0.00059	-0.00058
	(!A0 * A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B0 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7R	(A0 * A1 * B0 * !Y)	0.00033	0.00033	0.00033
	(A0 * A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * !Y)	-0.00058	-0.00057	-0.00057
	(!A1 * B0 * !Y)	0.00042	0.00042	0.00042
	(!A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * B0 * !Y)	-0.00052	-0.00050	-0.00047
	(!A1 * !B0 * Y)	0.00059	0.00059	0.00059
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * B0 * !Y)	0.00042	0.00042	0.00042
	(!A0 * A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * B0 * !Y)	-0.00051	-0.00047	-0.00042
	(!A0 * A1 * !B0 * Y)	0.00058	0.00059	0.00059
	(!A0 * A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7R	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * A2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !Y)	0.00070	0.00071	0.00071

Passive power(pJ) for B0 falling (conditional):

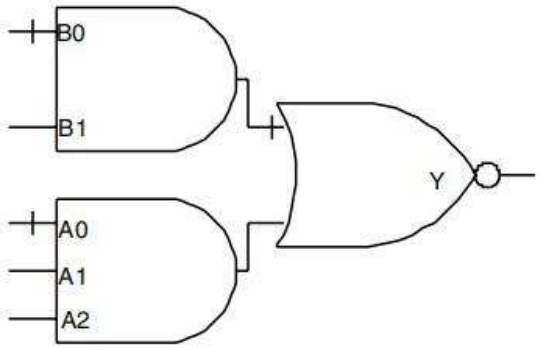
Cell Name	When	Power(pJ)		
		min	avg	max
AOI31X4H7R	(A0 * A1 * A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !Y)	-0.00071	-0.00070	-0.00069

AOI32X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X0P5H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X0P5H7R	0.00059	0.00060	0.00067	0.00063	0.00068	0.02118

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X0P5H7R	0.00000	0.11381	0.28941

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X0P5H7R	A0->Y (FR)	0.04808	0.20207	0.64913
	A1->Y (FR)	0.04540	0.19826	0.64580
	A2->Y (FR)	0.04315	0.19495	0.64341
	B0->Y (FR)	0.03850	0.19373	0.65856
	B1->Y (FR)	0.03571	0.18995	0.65476

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X0P5H7R	A0->Y (RF)	0.04369	0.18041	0.58106
	A1->Y (RF)	0.04064	0.18532	0.61999
	A2->Y (RF)	0.04046	0.18216	0.61573
	B0->Y (RF)	0.02261	0.13076	0.48684
	B1->Y (RF)	0.02149	0.12919	0.49946

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X0P5H7R	A0	0.00131	0.00134	0.00146
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00015	0.00015	0.00015
	A0	-0.00006	-0.00004	0.00010
	A1	0.00121	0.00125	0.00136
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00011	0.00011	0.00011
	A1	0.00000	0.00003	0.00016
	A2	0.00113	0.00117	0.00130
	A2	-0.00014	-0.00014	-0.00013
	A2	0.00006	0.00007	0.00007
	A2	-0.00001	0.00003	0.00019
	B0	0.00086	0.00093	0.00121
	B0	-0.00004	-0.00004	0.00000
	B0	0.00015	0.00015	0.00015
	B0	-0.00012	-0.00006	0.00027
	B1	0.00077	0.00083	0.00112
	B1	-0.00005	-0.00004	-0.00003
	B1	0.00008	0.00011	0.00011
	B1	-0.00010	-0.00003	0.00034

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X0P5H7R	A0	-0.00007	-0.00005	0.00007
	A0	0.00015	0.00015	0.00015
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00126	0.00130	0.00142
	A1	-0.00007	-0.00004	0.00009
	A1	0.00015	0.00015	0.00015
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00109	0.00113	0.00127
	A2	-0.00008	-0.00003	0.00018
	A2	0.00014	0.00015	0.00015
	A2	-0.00004	-0.00003	-0.00003
	A2	0.00100	0.00105	0.00127
	B0	-0.00006	-0.00002	0.00022
	B0	0.00000	0.00004	0.00005
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00095	0.00101	0.00121
	B1	-0.00004	0.00002	0.00035
	B1	0.00004	0.00005	0.00005
	B1	-0.00004	-0.00003	-0.00001
	B1	0.00084	0.00090	0.00119

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P5H7R	**(A1 * A2 * B0 * B1 * !Y)**	-0.00009	-0.00007	-0.00006
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * B1 * !Y)	0.00022	0.00022	0.00023
	(A1 * !A2 * B0 * B1 * !Y)	-0.00012	-0.00012	-0.00011
	(A1 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(A1 * !A2 * !B1 * Y)	-0.00012	-0.00012	-0.00011
	(A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * Y)	0.00020	0.00020	0.00021
	(A1 * !A2 * !B0 * B1 * Y)	-0.00012	-0.00012	-0.00011
	(A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * Y)	0.00020	0.00020	0.00021
	(!A1 * B0 * B1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B1 * Y)	-0.00012	-0.00012	-0.00011
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B0 * B1 * Y)	-0.00012	-0.00012	-0.00011
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !A2 * !B1 * Y)	-0.00012	-0.00012	-0.00011
	(!A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00012	-0.00012	-0.00011
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P5H7R	**(A1 * A2 * B0 * B1 * !Y)**	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * B1 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !A2 * B0 * B1 * !Y)	0.00011	0.00012	0.00012
	(A1 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00020	-0.00019	-0.00018
	(A1 * !A2 * !B1 * Y)	0.00012	0.00012	0.00012
	(A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * Y)	-0.00020	-0.00020	-0.00019
	(A1 * !A2 * !B0 * B1 * Y)	0.00012	0.00012	0.00012
	(A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * B1 * !Y)	0.00011	0.00012	0.00012
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * A2 * !B1 * Y)	0.00012	0.00012	0.00012
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * A2 * !B0 * B1 * Y)	0.00012	0.00012	0.00012
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !A2 * !B1 * Y)	0.00011	0.00012	0.00012
	(!A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !A2 * !B0 * B1 * Y)	0.00011	0.00012	0.00012
	(!A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P5H7R	**(A0 * A2 * B0 * B1 * !Y)**	-0.00009	-0.00008	-0.00006
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00016	0.00016	0.00017
	(A0 * !A2 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B1 * Y)	-0.00013	-0.00013	-0.00012
	(A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	0.00015	0.00015	0.00015
	(A0 * !A2 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00012
	(A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P5H7R	**(A0 * A2 * B0 * B1 * !Y)**	0.00009	0.00010	0.00010
	(A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * B0 * B1 * !Y)	0.00012	0.00013	0.00013
	(A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !A2 * !B1 * Y)	0.00013	0.00013	0.00014
	(A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * Y)	-0.00014	-0.00014	-0.00013
	(A0 * !A2 * !B0 * B1 * Y)	0.00013	0.00013	0.00014
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A2 * B0 * B1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A2 * !B1 * Y)	0.00012	0.00013	0.00013
	(!A0 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7R	(A0 * A1 * B0 * B1 * !Y)	-0.00010	-0.00008	-0.00006
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * B1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B1 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7R	(A0 * A1 * B0 * B1 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00016
	(!A1 * !B1 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * !B1 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7R	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00024	0.00024	0.00024
	(!A2 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	0.00016	0.00017	0.00017
	(!A1 * A2 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * A2 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00016	0.00017	0.00017

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7R	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00025	-0.00025	-0.00024
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00024	-0.00024	-0.00023
	(!A2 * !B1 * Y)	0.00017	0.00017	0.00018
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	-0.00016	-0.00015	-0.00015
	(!A1 * A2 * !B1 * Y)	0.00017	0.00017	0.00018
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * A1 * A2 * !B1 * Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00016	-0.00015	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7R	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00001	-0.00002	-0.00001
	(A0 * A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * !Y)	0.00024	0.00024	0.00024
	(!A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

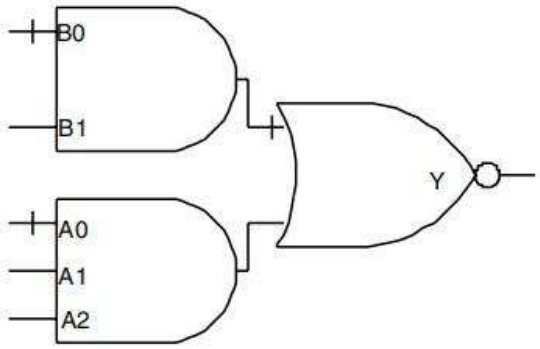
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P5H7R	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A2 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004

AOI32X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X0P7H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X0P7H7R	0.00064	0.00064	0.00073	0.00068	0.00076	0.02395

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X0P7H7R	0.00000	0.12819	0.32635

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X0P7H7R	A0->Y (FR)	0.04645	0.20106	0.65073
	A1->Y (FR)	0.04373	0.19714	0.64692
	A2->Y (FR)	0.04139	0.19372	0.64406
	B0->Y (FR)	0.03650	0.19212	0.65907
	B1->Y (FR)	0.03388	0.18838	0.65538

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X0P7H7R	A0->Y (RF)	0.03993	0.17749	0.57992
	A1->Y (RF)	0.03859	0.18318	0.61808
	A2->Y (RF)	0.03653	0.17880	0.61242
	B0->Y (RF)	0.02127	0.12918	0.48563
	B1->Y (RF)	0.02020	0.12717	0.49657

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X0P7H7R	A0	0.00146	0.00149	0.00162
	A0	-0.00016	-0.00016	-0.00015
	A0	0.00017	0.00017	0.00017
	A0	-0.00005	-0.00002	0.00012
	A1	0.00135	0.00138	0.00151
	A1	-0.00016	-0.00016	-0.00015
	A1	0.00013	0.00013	0.00013
	A1	0.00001	0.00004	0.00019
	A2	0.00125	0.00129	0.00144
	A2	-0.00018	-0.00016	-0.00016
	A2	0.00008	0.00009	0.00014
	A2	-0.00001	0.00005	0.00022
	B0	0.00094	0.00102	0.00132
	B0	-0.00005	-0.00005	-0.00003
	B0	0.00017	0.00017	0.00017
	B0	-0.00014	-0.00007	0.00030
	B1	0.00085	0.00091	0.00123
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00010	0.00012	0.00013
	B1	-0.00011	-0.00003	0.00038

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X0P7H7R	A0	-0.00008	-0.00005	0.00007
	A0	0.00017	0.00017	0.00017
	A0	-0.00013	-0.00013	-0.00012
	A0	0.00139	0.00143	0.00156
	A1	-0.00008	-0.00005	0.00010
	A1	0.00017	0.00017	0.00017
	A1	-0.00009	-0.00008	-0.00008
	A1	0.00122	0.00125	0.00140
	A2	-0.00008	-0.00004	0.00020
	A2	0.00016	0.00016	0.00019
	A2	-0.00004	-0.00004	-0.00004
	A2	0.00109	0.00115	0.00140
	B0	-0.00008	-0.00001	0.00025
	B0	0.00005	0.00005	0.00011
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00104	0.00112	0.00135
	B1	-0.00004	0.00003	0.00040
	B1	0.00005	0.00005	0.00009
	B1	-0.00004	-0.00004	-0.00001
	B1	0.00091	0.00099	0.00133

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P7H7R	**(A1 * A2 * B0 * B1 * !Y)**	-0.00010	-0.00009	-0.00006
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * B1 * !Y)	0.00023	0.00024	0.00024
	(A1 * !A2 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(A1 * !A2 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * Y)	0.00021	0.00021	0.00021
	(A1 * !A2 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * B1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !A2 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P7H7R	**(A1 * A2 * B0 * B1 * !Y)**	0.00010	0.00010	0.00010
	(A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * B1 * !Y)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00021	-0.00020	-0.00019
	(A1 * !A2 * !B1 * Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * Y)	-0.00021	-0.00020	-0.00019
	(A1 * !A2 * !B0 * B1 * Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * B0 * B1 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * A2 * !B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * A2 * !B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !A2 * !B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !A2 * !B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P7H7R	**(A0 * A2 * B0 * B1 * !Y)**	-0.00011	-0.00009	-0.00006
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00018	0.00018	0.00019
	(A0 * !A2 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * A2 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X0P7H7R	**(A0 * A2 * B0 * B1 * !Y)**	0.00010	0.00011	0.00011
	(A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * !A2 * !B1 * Y)	0.00014	0.00014	0.00015
	(A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * !A2 * !B0 * B1 * Y)	0.00014	0.00014	0.00015
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A2 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A2 * !B1 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7R	(A0 * A1 * B0 * B1 * !Y)	-0.00011	-0.00009	-0.00007
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * B1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7R	(A0 * A1 * B0 * B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00019	-0.00017	-0.00016
	(!A0 * A1 * !B1 * Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B0 * B1 * Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7R	(A0 * A1 * A2 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00026	0.00026	0.00026
	(!A2 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	0.00018	0.00018	0.00018
	(!A1 * A2 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * A2 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7R	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00026	-0.00026	-0.00025
	(!A2 * !B1 * Y)	0.00018	0.00018	0.00019
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * A2 * !B1 * Y)	0.00018	0.00018	0.00019
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * A2 * !B1 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7R	(A0 * A1 * A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * !Y)	0.00026	0.00026	0.00026
	(!A2 * !B0 * Y)	-0.00023	-0.00022	-0.00022
	(!A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A2 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B0 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * A2 * !B0 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

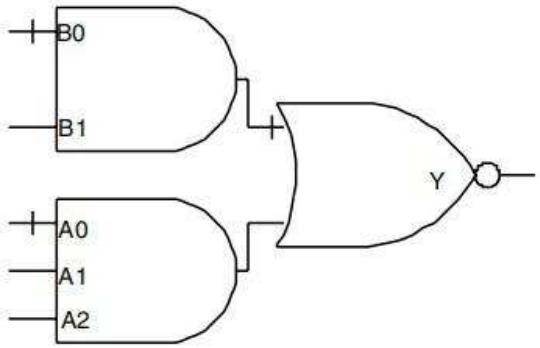
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X0P7H7R	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A2 * !B0 * Y)	0.00022	0.00022	0.00023
	(!A2 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !B0 * Y)	0.00022	0.00022	0.00023
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * A2 * !B0 * Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B0 * Y)	-0.00005	-0.00005	-0.00005

AOI32X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X1H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X1H7R	0.00073	0.00075	0.00083	0.00073	0.00087	0.02846

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X1H7R	0.00000	0.14911	0.37703

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X1H7R	A0->Y (FR)	0.04323	0.19819	0.65125
	A1->Y (FR)	0.04038	0.19415	0.64758
	A2->Y (FR)	0.03804	0.19070	0.64475
	B0->Y (FR)	0.03380	0.18987	0.65958
	B1->Y (FR)	0.03187	0.18664	0.65673

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X1H7R	A0->Y (RF)	0.03755	0.17686	0.58461
	A1->Y (RF)	0.03593	0.18216	0.62394
	A2->Y (RF)	0.03561	0.17844	0.61785
	B0->Y (RF)	0.01980	0.12873	0.49078
	B1->Y (RF)	0.01908	0.12700	0.50130

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X1H7R	A0	0.00163	0.00167	0.00182
	A0	-0.00020	-0.00020	-0.00019
	A0	0.00020	0.00020	0.00020
	A0	-0.00006	-0.00004	0.00013
	A1	0.00151	0.00154	0.00169
	A1	-0.00020	-0.00020	-0.00020
	A1	0.00015	0.00015	0.00015
	A1	-0.00002	0.00002	0.00019
	A2	0.00139	0.00143	0.00161
	A2	-0.00021	-0.00020	-0.00018
	A2	0.00009	0.00010	0.00016
	A2	-0.00004	0.00002	0.00023
	B0	0.00106	0.00115	0.00151
	B0	-0.00006	-0.00006	-0.00004
	B0	0.00020	0.00020	0.00020
	B0	-0.00016	-0.00008	0.00035
	B1	0.00098	0.00105	0.00143
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00011	0.00015	0.00015
	B1	-0.00013	-0.00004	0.00045

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X1H7R	A0	-0.00009	-0.00006	0.00008
	A0	0.00019	0.00020	0.00021
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00156	0.00161	0.00176
	A1	-0.00009	-0.00006	0.00012
	A1	0.00020	0.00020	0.00022
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00136	0.00142	0.00160
	A2	-0.00010	-0.00004	0.00024
	A2	0.00018	0.00020	0.00023
	A2	-0.00005	-0.00005	-0.00005
	A2	0.00122	0.00131	0.00160
	B0	-0.00011	-0.00002	0.00030
	B0	0.00006	0.00006	0.00014
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00117	0.00126	0.00154
	B1	-0.00007	0.00001	0.00045
	B1	0.00006	0.00006	0.00013
	B1	-0.00005	-0.00005	-0.00002
	B1	0.00104	0.00113	0.00152

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1H7R	**(A1 * A2 * B0 * B1 * !Y)**	-0.00012	-0.00010	-0.00008
	(A1 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * A2 * B0 * B1 * !Y)	0.00024	0.00024	0.00025
	(A1 * !A2 * B0 * B1 * !Y)	-0.00016	-0.00015	-0.00015
	(A1 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(A1 * !A2 * !B1 * Y)	-0.00015	-0.00015	-0.00015
	(A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * Y)	0.00021	0.00021	0.00022
	(A1 * !A2 * !B0 * B1 * Y)	-0.00016	-0.00015	-0.00015
	(A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * B1 * !Y)	-0.00016	-0.00015	-0.00015
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B0 * B1 * Y)	-0.00016	-0.00015	-0.00015
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !A2 * !B1 * Y)	-0.00016	-0.00015	-0.00015
	(!A1 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00016	-0.00015	-0.00015
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1H7R	**(A1 * A2 * B0 * B1 * !Y)**	0.00012	0.00012	0.00012
	(A1 * A2 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * !A2 * B0 * B1 * !Y)	0.00015	0.00015	0.00016
	(A1 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00021	-0.00020	-0.00019
	(A1 * !A2 * !B1 * Y)	0.00016	0.00016	0.00016
	(A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * Y)	-0.00021	-0.00020	-0.00019
	(A1 * !A2 * !B0 * B1 * Y)	0.00015	0.00016	0.00016
	(A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * B0 * B1 * !Y)	0.00015	0.00015	0.00016
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * A2 * !B1 * Y)	0.00015	0.00015	0.00016
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * A2 * !B0 * B1 * Y)	0.00015	0.00015	0.00016
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !A2 * !B1 * Y)	0.00015	0.00015	0.00016
	(!A1 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !A2 * !B0 * B1 * Y)	0.00015	0.00015	0.00016
	(!A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1H7R	**(A0 * A2 * B0 * B1 * !Y)**	-0.00012	-0.00010	-0.00008
	(A0 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00019	0.00020	0.00020
	(A0 * !A2 * B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A2 * !B1 * Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * !B1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1H7R	**(A0 * A2 * B0 * B1 * !Y)**	0.00012	0.00012	0.00012
	(A0 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A2 * B0 * B1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00016
	(A0 * !A2 * !B1 * Y)	0.00015	0.00016	0.00017
	(A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * Y)	-0.00017	-0.00016	-0.00015
	(A0 * !A2 * !B0 * B1 * Y)	0.00015	0.00016	0.00017
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A2 * B0 * B1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * A2 * !B1 * Y)	0.00015	0.00015	0.00016
	(!A0 * A2 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * Y)	0.00015	0.00015	0.00016
	(!A0 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7R	(A0 * A1 * B0 * B1 * !Y)	-0.00012	-0.00010	-0.00008
	(A0 * A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7R	(A0 * A1 * B0 * B1 * !Y)	0.00012	0.00012	0.00012
	(A0 * A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B0 * B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7R	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00001	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00028	0.00028	0.00028
	(!A2 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	0.00020	0.00020	0.00021
	(!A1 * A2 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * A2 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00020	0.00020	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7R	(A0 * A1 * A2 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00028	-0.00027	-0.00026
	(!A2 * !B1 * Y)	0.00018	0.00019	0.00019
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * A2 * !B1 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * A2 * !B1 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7R	(A0 * A1 * A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !Y)	0.00031	0.00031	0.00031
	(A0 * A1 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * !Y)	0.00029	0.00030	0.00030
	(!A2 * !B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

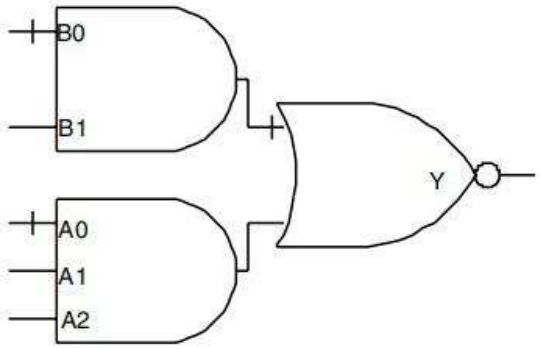
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1H7R	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * !Y)	-0.00030	-0.00029	-0.00028
	(!A2 * !B0 * Y)	0.00027	0.00027	0.00027
	(!A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * Y)	0.00027	0.00027	0.00027
	(!A1 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004

AOI32X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X1P4H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X1P4H7R	0.00077	0.00080	0.00089	0.00077	0.00093	0.03244

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X1P4H7R	0.00000	0.16922	0.42730

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X1P4H7R	A0->Y (FR)	0.04102	0.19631	0.65151
	A1->Y (FR)	0.03819	0.19221	0.64792
	A2->Y (FR)	0.03569	0.18860	0.64447
	B0->Y (FR)	0.03212	0.18847	0.65971
	B1->Y (FR)	0.03000	0.18509	0.65722

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X1P4H7R	A0->Y (RF)	0.03710	0.17498	0.58158
	A1->Y (RF)	0.03361	0.17903	0.62009
	A2->Y (RF)	0.03129	0.17407	0.61338
	B0->Y (RF)	0.01848	0.12698	0.48957
	B1->Y (RF)	0.01766	0.12475	0.49801

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X1P4H7R	A0	0.00177	0.00182	0.00199
	A0	-0.00023	-0.00023	-0.00023
	A0	0.00023	0.00023	0.00023
	A0	-0.00009	-0.00006	0.00014
	A1	0.00163	0.00167	0.00185
	A1	-0.00023	-0.00023	-0.00023
	A1	0.00017	0.00017	0.00018
	A1	-0.00005	-0.00001	0.00019
	A2	0.00150	0.00155	0.00176
	A2	-0.00023	-0.00023	-0.00023
	A2	0.00011	0.00012	0.00018
	A2	-0.00007	-0.00000	0.00025
	B0	0.00117	0.00127	0.00168
	B0	-0.00007	-0.00007	0.00000
	B0	0.00023	0.00023	0.00023
	B0	-0.00016	-0.00007	0.00042
	B1	0.00107	0.00115	0.00159
	B1	-0.00007	-0.00007	0.00000
	B1	0.00017	0.00017	0.00017
	B1	-0.00014	-0.00003	0.00053

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X1P4H7R	A0	-0.00011	-0.00007	0.00009
	A0	0.00024	0.00024	0.00024
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00173	0.00178	0.00195
	A1	-0.00010	-0.00007	0.00014
	A1	0.00024	0.00024	0.00024
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00149	0.00157	0.00178
	A2	-0.00011	-0.00005	0.00028
	A2	0.00024	0.00024	0.00024
	A2	-0.00006	-0.00006	-0.00005
	A2	0.00133	0.00144	0.00178
	B0	-0.00009	-0.00003	0.00033
	B0	0.00000	0.00007	0.00012
	B0	-0.00012	-0.00011	-0.00011
	B0	0.00129	0.00137	0.00169
	B1	-0.00009	0.00001	0.00052
	B1	0.00007	0.00008	0.00036
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00112	0.00123	0.00169

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1P4H7R	**(A1 * A2 * B0 * B1 * !Y)**	-0.00014	-0.00012	-0.00009
	(A1 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * B1 * !Y)	0.00024	0.00025	0.00025
	(A1 * !A2 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00017
	(A1 * !A2 * B0 * B1 * !Y)	-0.00000	-0.00001	-0.00000
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * B0 * B1 * !Y)	0.00021	0.00022	0.00022
	(A1 * !A2 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B1 * Y)	0.00022	0.00022	0.00022
	(A1 * !A2 * !B0 * B1 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * B1 * !Y)	-0.00000	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B0 * B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !A2 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00000	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1P4H7R	**(A1 * A2 * B0 * B1 * !Y)**	0.00014	0.00014	0.00014
	(A1 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !A2 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(A1 * !A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00022	-0.00021	-0.00019
	(A1 * !A2 * !B1 * Y)	0.00017	0.00017	0.00018
	(A1 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B1 * Y)	-0.00022	-0.00021	-0.00019
	(A1 * !A2 * !B0 * B1 * Y)	0.00017	0.00017	0.00017
	(A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00022	-0.00021	-0.00019
	(!A1 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * A2 * !B1 * Y)	0.00017	0.00017	0.00018
	(!A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * A2 * !B0 * B1 * Y)	0.00017	0.00017	0.00018
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !A2 * !B1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !A2 * !B0 * B1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1P4H7R	**(A0 * A2 * B0 * B1 * !Y)**	-0.00014	-0.00012	-0.00009
	(A0 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A2 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * B0 * B1 * !Y)	0.00018	0.00019	0.00019
	(A0 * !A2 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !B0 * B1 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * B0 * B1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A2 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A2 * !B0 * B1 * Y)	-0.00000	-0.00001	-0.00000
	(!A0 * A2 * !B0 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X1P4H7R	**(A0 * A2 * B0 * B1 * !Y)**	0.00013	0.00014	0.00014
	(A0 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00019	-0.00018	-0.00017
	(A0 * !A2 * !B1 * Y)	0.00017	0.00018	0.00019
	(A0 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * !A2 * !B0 * B1 * Y)	0.00017	0.00018	0.00019
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A2 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A2 * !B1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	0.00017	0.00018	0.00018
	(!A0 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00017	0.00018	0.00018
	(!A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7R	(A0 * A1 * B0 * B1 * !Y)	-0.00014	-0.00012	-0.00009
	(A0 * A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00024	0.00024	0.00025
	(!A1 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * Y)	-0.00026	-0.00025	-0.00025
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * Y)	-0.00026	-0.00025	-0.00025
	(!A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * !Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B0 * B1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * !B1 * Y)	-0.00026	-0.00025	-0.00025
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * Y)	-0.00026	-0.00025	-0.00025
	(!A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7R	(A0 * A1 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * B1 * !Y)	0.00017	0.00018	0.00018
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B1 * Y)	0.00025	0.00026	0.00026
	(!A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * B1 * !Y)	0.00017	0.00018	0.00018
	(!A0 * A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00022	-0.00020	-0.00018
	(!A0 * A1 * !B1 * Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B0 * B1 * Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7R	(A0 * A1 * A2 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !Y)	0.00029	0.00029	0.00030
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00028	0.00028	0.00028
	(!A2 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * A2 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7R	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00028	-0.00027	-0.00026
	(!A2 * !B1 * Y)	0.00020	0.00021	0.00021
	(!A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * A2 * !B1 * Y)	0.00020	0.00021	0.00021
	(!A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * A2 * !B1 * Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7R	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !Y)	0.00033	0.00033	0.00033
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * A2 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * !Y)	0.00031	0.00031	0.00031
	(!A2 * !B0 * Y)	-0.00029	-0.00029	-0.00029
	(!A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

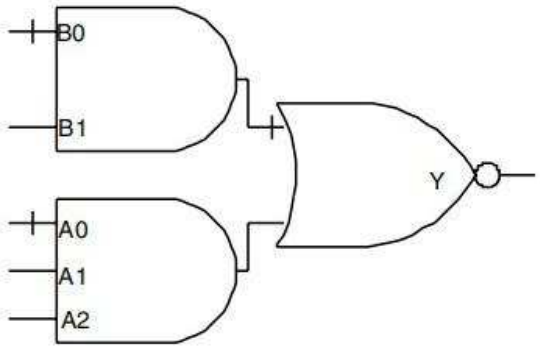
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X1P4H7R	(A0 * A1 * A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00033	-0.00033	-0.00032
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B0 * !Y)	-0.00031	-0.00030	-0.00029
	(!A2 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A0 * A1 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004

AOI32X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X2H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X2H7R	0.00086	0.00088	0.00095	0.00096	0.00100	0.03798

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X2H7R	0.00000	0.20012	0.50653

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X2H7R	A0->Y (FR)	0.04032	0.19590	0.65221
	A1->Y (FR)	0.03754	0.19185	0.64887
	A2->Y (FR)	0.03440	0.18764	0.64562
	B0->Y (FR)	0.03299	0.18959	0.66208
	B1->Y (FR)	0.02954	0.18500	0.65776

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X2H7R	A0->Y (RF)	0.03566	0.17086	0.57159
	A1->Y (RF)	0.03411	0.17605	0.60908
	A2->Y (RF)	0.02935	0.16918	0.60272
	B0->Y (RF)	0.01864	0.12498	0.48263
	B1->Y (RF)	0.01682	0.12183	0.48978

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X2H7R	A0	0.00210	0.00215	0.00235
	A0	-0.00028	-0.00028	-0.00027
	A0	0.00027	0.00028	0.00028
	A0	-0.00006	-0.00003	0.00020
	A1	0.00193	0.00197	0.00218
	A1	-0.00028	-0.00028	-0.00027
	A1	0.00018	0.00021	0.00022
	A1	-0.00002	0.00003	0.00026
	A2	0.00176	0.00181	0.00207
	A2	-0.00028	-0.00028	-0.00027
	A2	0.00009	0.00014	0.00016
	A2	-0.00002	0.00004	0.00034
	B0	0.00147	0.00157	0.00203
	B0	-0.00009	-0.00009	0.00000
	B0	0.00027	0.00027	0.00028
	B0	-0.00012	-0.00001	0.00055
	B1	0.00131	0.00139	0.00191
	B1	-0.00009	-0.00009	0.00000
	B1	0.00020	0.00020	0.00021
	B1	-0.00008	0.00004	0.00070

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X2H7R	A0	-0.00013	-0.00009	0.00011
	A0	0.00028	0.00029	0.00029
	A0	-0.00021	-0.00020	-0.00020
	A0	0.00197	0.00206	0.00226
	A1	-0.00012	-0.00008	0.00016
	A1	0.00027	0.00028	0.00030
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00175	0.00182	0.00206
	A2	-0.00012	-0.00005	0.00035
	A2	0.00028	0.00028	0.00029
	A2	-0.00007	-0.00007	-0.00002
	A2	0.00153	0.00164	0.00205
	B0	-0.00012	-0.00003	0.00038
	B0	0.00008	0.00009	0.00009
	B0	-0.00014	-0.00014	-0.00014
	B0	0.00149	0.00161	0.00197
	B1	-0.00011	0.00000	0.00061
	B1	0.00009	0.00009	0.00009
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00125	0.00139	0.00194

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X2H7R	**(A1 * A2 * B0 * B1 * !Y)**	-0.00016	-0.00014	-0.00010
	(A1 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * B1 * !Y)	0.00027	0.00027	0.00028
	(A1 * !A2 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B1 * Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B0 * B1 * Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B1 * Y)	0.00024	0.00024	0.00024
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * B1 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X2H7R	**(A1 * A2 * B0 * B1 * !Y)**	0.00016	0.00016	0.00016
	(A1 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * B1 * !Y)	-0.00027	-0.00026	-0.00026
	(A1 * !A2 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(A1 * !A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00021
	(A1 * !A2 * !B1 * Y)	0.00020	0.00020	0.00020
	(A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !B1 * Y)	-0.00024	-0.00023	-0.00021
	(A1 * !A2 * !B0 * B1 * Y)	0.00020	0.00020	0.00020
	(A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00021
	(!A1 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * A2 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * A2 * !B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !A2 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B1 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !A2 * !B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A1 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X2H7R	**(A0 * A2 * B0 * B1 * !Y)**	-0.00016	-0.00014	-0.00010
	(A0 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00023	0.00023	0.00024
	(A0 * !A2 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * B1 * !Y)	0.00020	0.00020	0.00021
	(A0 * !A2 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	0.00021	0.00021	0.00022
	(A0 * !A2 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	0.00021	0.00021	0.00022
	(!A0 * A2 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * B1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A2 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * B0 * B1 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * B1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * B1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X2H7R	**(A0 * A2 * B0 * B1 * !Y)**	0.00016	0.00016	0.00016
	(A0 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * B1 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * B0 * B1 * !Y)	-0.00021	-0.00020	-0.00019
	(A0 * !A2 * !B1 * Y)	0.00020	0.00021	0.00022
	(A0 * !A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * Y)	-0.00021	-0.00020	-0.00018
	(A0 * !A2 * !B0 * B1 * Y)	0.00020	0.00020	0.00021
	(A0 * !A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A2 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * B1 * !Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A2 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7R	(A0 * A1 * B0 * B1 * !Y)	-0.00016	-0.00014	-0.00011
	(A0 * A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00024	0.00025	0.00025
	(!A1 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7R	(A0 * A1 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(A0 * A1 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * B1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00021	-0.00020	-0.00017
	(!A0 * A1 * !B1 * Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B0 * B1 * Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7R	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !Y)	0.00035	0.00036	0.00036
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00034	0.00034	0.00034
	(!A2 * !B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B1 * Y)	-0.00028	-0.00027	-0.00027
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * A2 * !B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7R	(A0 * A1 * A2 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !Y)	-0.00036	-0.00035	-0.00035
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00034	-0.00033	-0.00032
	(!A2 * !B1 * Y)	0.00028	0.00028	0.00029
	(!A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * A2 * !B1 * Y)	0.00028	0.00028	0.00029
	(!A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A1 * A2 * !B1 * Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7R	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !Y)	0.00033	0.00033	0.00034
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * !Y)	0.00031	0.00032	0.00032
	(!A2 * !B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * Y)	0.00003	0.00003	0.00004
	(!A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00004
	(!A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A0 * A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

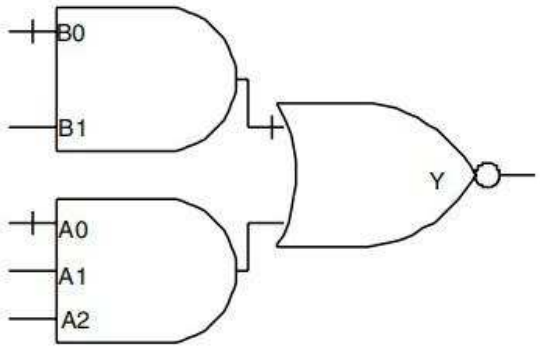
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X2H7R	(A0 * A1 * A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * !Y)	-0.00032	-0.00031	-0.00029
	(!A2 * !B0 * Y)	0.00032	0.00032	0.00033
	(!A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * Y)	0.00032	0.00032	0.00032
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003

AOI32X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X3H7R	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X3H7R	0.00152	0.00151	0.00167	0.00157	0.00161	0.05891

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X3H7R	0.00000	0.31439	0.79710

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X3H7R	A0->Y (FR)	0.04392	0.19965	0.65300
	A1->Y (FR)	0.04033	0.19445	0.64835
	A2->Y (FR)	0.03599	0.18873	0.64339
	B0->Y (FR)	0.03481	0.19175	0.66165
	B1->Y (FR)	0.02991	0.18550	0.65639

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X3H7R	A0->Y (RF)	0.03654	0.17581	0.58282
	A1->Y (RF)	0.03443	0.17971	0.61984
	A2->Y (RF)	0.03002	0.17304	0.61399
	B0->Y (RF)	0.01908	0.12693	0.48818
	B1->Y (RF)	0.01637	0.12301	0.49735

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X3H7R	A0	0.00384	0.00392	0.00420
	A0	-0.00042	-0.00042	-0.00041
	A0	0.00041	0.00042	0.00050
	A0	0.00004	0.00010	0.00042
	A1	0.00348	0.00356	0.00385
	A1	-0.00044	-0.00042	-0.00041
	A1	0.00031	0.00032	0.00032
	A1	0.00007	0.00015	0.00048
	A2	0.00310	0.00320	0.00358
	A2	-0.00042	-0.00042	-0.00036
	A2	0.00021	0.00021	0.00029
	A2	0.00003	0.00014	0.00058
	B0	0.00268	0.00284	0.00356
	B0	-0.00013	-0.00013	-0.00010
	B0	0.00041	0.00042	0.00042
	B0	-0.00021	-0.00004	0.00083
	B1	0.00232	0.00246	0.00326
	B1	-0.00013	-0.00013	-0.00012
	B1	0.00030	0.00031	0.00031
	B1	-0.00023	-0.00002	0.00106

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X3H7R	A0	-0.00021	-0.00015	0.00011
	A0	0.00043	0.00043	0.00044
	A0	-0.00031	-0.00031	-0.00031
	A0	0.00358	0.00366	0.00392
	A1	-0.00020	-0.00013	0.00021
	A1	0.00041	0.00042	0.00044
	A1	-0.00022	-0.00021	-0.00021
	A1	0.00310	0.00320	0.00355
	A2	-0.00021	-0.00009	0.00053
	A2	0.00043	0.00043	0.00049
	A2	-0.00010	-0.00010	-0.00007
	A2	0.00262	0.00285	0.00349
	B0	-0.00016	-0.00004	0.00061
	B0	0.00013	0.00013	0.00014
	B0	-0.00022	-0.00021	-0.00016
	B0	0.00282	0.00294	0.00349
	B1	-0.00015	0.00003	0.00103
	B1	0.00013	0.00014	0.00029
	B1	-0.00011	-0.00010	-0.00007
	B1	0.00233	0.00252	0.00340

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X3H7R	**(A1 * A2 * B0 * B1 * !Y)**	-0.00026	-0.00022	-0.00016
	(A1 * A2 * B0 * B1 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(A1 * A2 * B0 * B1 * !Y)	0.00051	0.00051	0.00052
	(A1 * !A2 * B0 * B1 * !Y)	-0.00033	-0.00033	-0.00033
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * B1 * !Y)	0.00043	0.00043	0.00043
	(A1 * !A2 * !B1 * Y)	-0.00034	-0.00034	-0.00033
	(A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B1 * Y)	0.00043	0.00044	0.00044
	(A1 * !A2 * !B0 * B1 * Y)	-0.00034	-0.00034	-0.00033
	(A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B0 * B1 * Y)	0.00043	0.00044	0.00044
	(!A1 * B0 * B1 * !Y)	-0.00033	-0.00033	-0.00033
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	0.00044	0.00044	0.00044
	(!A1 * A2 * !B1 * Y)	-0.00034	-0.00033	-0.00033
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * Y)	0.00044	0.00045	0.00045
	(!A1 * A2 * !B0 * B1 * Y)	-0.00034	-0.00034	-0.00033
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * B1 * Y)	0.00045	0.00045	0.00045
	(!A1 * !A2 * !B1 * Y)	-0.00034	-0.00034	-0.00033
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !A2 * !B1 * Y)	0.00043	0.00044	0.00044
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00034	-0.00034	-0.00033
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !A2 * !B0 * B1 * Y)	0.00043	0.00044	0.00044

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X3H7R	**(A1 * A2 * B0 * B1 * !Y)**	0.00025	0.00026	0.00026
	(A1 * A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00004
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * !Y)	-0.00051	-0.00050	-0.00050
	(A1 * !A2 * B0 * B1 * !Y)	0.00033	0.00033	0.00033
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * B1 * !Y)	-0.00043	-0.00041	-0.00037
	(A1 * !A2 * !B1 * Y)	0.00034	0.00034	0.00035
	(A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B1 * Y)	-0.00043	-0.00040	-0.00036
	(A1 * !A2 * !B0 * B1 * Y)	0.00034	0.00034	0.00035
	(A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B0 * B1 * Y)	-0.00043	-0.00040	-0.00036
	(!A1 * B0 * B1 * !Y)	0.00033	0.00033	0.00034
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !Y)	-0.00044	-0.00043	-0.00040
	(!A1 * A2 * !B1 * Y)	0.00034	0.00034	0.00034
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * Y)	-0.00044	-0.00042	-0.00038
	(!A1 * A2 * !B0 * B1 * Y)	0.00034	0.00034	0.00034
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B1 * Y)	-0.00044	-0.00042	-0.00038
	(!A1 * !A2 * !B1 * Y)	0.00034	0.00034	0.00034
	(!A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !A2 * !B1 * Y)	-0.00044	-0.00042	-0.00039
	(!A1 * !A2 * !B0 * B1 * Y)	0.00034	0.00034	0.00034
	(!A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00044	-0.00042	-0.00039

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X3H7R	**(A0 * A2 * B0 * B1 * !Y)**	-0.00026	-0.00022	-0.00016
	(A0 * A2 * B0 * B1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00049	0.00050	0.00051
	(A0 * !A2 * B0 * B1 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A2 * B0 * B1 * !Y)	0.00043	0.00044	0.00044
	(A0 * !A2 * !B1 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B1 * Y)	0.00045	0.00045	0.00045
	(A0 * !A2 * !B0 * B1 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * B1 * Y)	0.00045	0.00045	0.00045
	(!A0 * A2 * B0 * B1 * !Y)	-0.00033	-0.00033	-0.00033
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * B0 * B1 * !Y)	0.00042	0.00043	0.00043
	(!A0 * A2 * !B1 * Y)	-0.00036	-0.00036	-0.00035
	(!A0 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B1 * Y)	0.00007	0.00007	0.00007
	(!A0 * A2 * !B1 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * B1 * Y)	-0.00036	-0.00036	-0.00035
	(!A0 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * Y)	0.00007	0.00007	0.00007
	(!A0 * A2 * !B0 * B1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00033	-0.00033	-0.00033
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * B1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A2 * B0 * B1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * !B1 * Y)	-0.00036	-0.00036	-0.00036
	(!A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A2 * !B1 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00036	-0.00036	-0.00036
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * B1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A2 * !B0 * B1 * Y)	0.00014	0.00015	0.00015

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X3H7R	**(A0 * A2 * B0 * B1 * !Y)**	0.00025	0.00026	0.00026
	(A0 * A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00004
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * !Y)	-0.00049	-0.00049	-0.00049
	(A0 * !A2 * B0 * B1 * !Y)	0.00033	0.00033	0.00033
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A2 * B0 * B1 * !Y)	-0.00044	-0.00043	-0.00040
	(A0 * !A2 * !B1 * Y)	0.00034	0.00035	0.00038
	(A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B1 * Y)	-0.00044	-0.00042	-0.00038
	(A0 * !A2 * !B0 * B1 * Y)	0.00034	0.00035	0.00038
	(A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * B1 * Y)	-0.00044	-0.00042	-0.00038
	(!A0 * A2 * B0 * B1 * !Y)	0.00033	0.00033	0.00033
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * B0 * B1 * !Y)	-0.00043	-0.00041	-0.00038
	(!A0 * A2 * !B1 * Y)	0.00035	0.00036	0.00036
	(!A0 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B0 * B1 * Y)	0.00035	0.00036	0.00036
	(!A0 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * B1 * !Y)	0.00033	0.00033	0.00034
	(!A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * !B1 * Y)	0.00036	0.00037	0.00037
	(!A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A2 * !B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A2 * !B0 * B1 * Y)	0.00036	0.00037	0.00037
	(!A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00014

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7R	(A0 * A1 * B0 * B1 * !Y)	-0.00027	-0.00022	-0.00016
	(A0 * A1 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * !Y)	0.00051	0.00052	0.00053
	(!A1 * B0 * B1 * !Y)	-0.00034	-0.00034	-0.00034
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00003
	(!A1 * B0 * B1 * !Y)	0.00046	0.00046	0.00047
	(!A1 * !B1 * Y)	-0.00050	-0.00050	-0.00050
	(!A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B1 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * B1 * Y)	-0.00050	-0.00050	-0.00050
	(!A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * B1 * !Y)	-0.00034	-0.00034	-0.00034
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * A1 * B0 * B1 * !Y)	0.00045	0.00045	0.00045
	(!A0 * A1 * !B1 * Y)	-0.00050	-0.00050	-0.00050
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * !B0 * B1 * Y)	-0.00050	-0.00050	-0.00050
	(!A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * Y)	0.00013	0.00013	0.00013

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7R	(A0 * A1 * B0 * B1 * !Y)	0.00026	0.00026	0.00027
	(A0 * A1 * B0 * B1 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * !Y)	-0.00051	-0.00051	-0.00051
	(!A1 * B0 * B1 * !Y)	0.00034	0.00034	0.00034
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1 * B0 * B1 * !Y)	-0.00046	-0.00045	-0.00042
	(!A1 * !B1 * Y)	0.00050	0.00050	0.00050
	(!A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * B1 * Y)	0.00050	0.00050	0.00050
	(!A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * B0 * B1 * !Y)	0.00034	0.00034	0.00035
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	-0.00045	-0.00042	-0.00037
	(!A0 * A1 * !B1 * Y)	0.00050	0.00050	0.00050
	(!A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * !B0 * B1 * Y)	0.00050	0.00050	0.00050
	(!A0 * A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7R	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * A2 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !Y)	0.00063	0.00064	0.00064
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !Y)	0.00059	0.00060	0.00060
	(!A2 * !B1 * Y)	-0.00039	-0.00039	-0.00038
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	0.00000	0.00002	0.00002
	(!A2 * !B1 * Y)	0.00042	0.00042	0.00043
	(!A1 * A2 * !B1 * Y)	-0.00039	-0.00039	-0.00038
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * Y)	0.00042	0.00042	0.00042
	(!A0 * A1 * A2 * !B1 * Y)	-0.00039	-0.00039	-0.00038
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * Y)	0.00042	0.00042	0.00042

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7R	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !Y)	-0.00064	-0.00063	-0.00063
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B1 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00060	-0.00058	-0.00056
	(!A2 * !B1 * Y)	0.00039	0.00040	0.00043
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00002	-0.00002	-0.00000
	(!A2 * !B1 * Y)	-0.00040	-0.00038	-0.00034
	(!A1 * A2 * !B1 * Y)	0.00039	0.00040	0.00043
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * Y)	-0.00040	-0.00038	-0.00034
	(!A0 * A1 * A2 * !B1 * Y)	0.00039	0.00040	0.00043
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * Y)	-0.00040	-0.00038	-0.00034

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7R	(A0 * A1 * A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !Y)	0.00062	0.00062	0.00062
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B0 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * A2 * !B0 * !Y)	0.00058	0.00059	0.00059
	(!A2 * !B0 * Y)	-0.00053	-0.00052	-0.00052
	(!A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A2 * !B0 * Y)	0.00008	0.00009	0.00009
	(!A1 * A2 * !B0 * Y)	-0.00053	-0.00052	-0.00052
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * A2 * !B0 * Y)	-0.00053	-0.00052	-0.00052
	(!A0 * A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B1 falling (conditional):

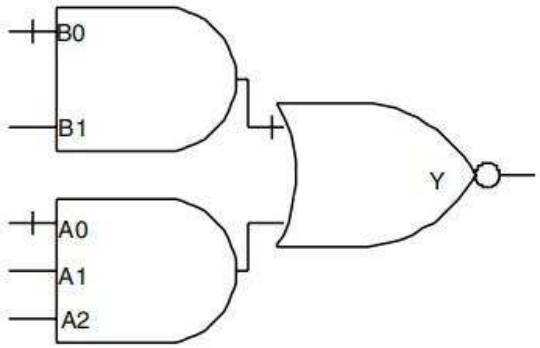
Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X3H7R	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !Y)	-0.00062	-0.00062	-0.00062
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * !Y)	-0.00059	-0.00057	-0.00054
	(!A2 * !B0 * Y)	0.00052	0.00052	0.00053
	(!A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * Y)	-0.00005	-0.00004	-0.00004
	(!A2 * !B0 * Y)	-0.00009	-0.00009	-0.00008
	(!A1 * A2 * !B0 * Y)	0.00052	0.00052	0.00053
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * A1 * A2 * !B0 * Y)	0.00052	0.00052	0.00053
	(!A0 * A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009

AOI32X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The AOI32 cell provides the logical inverted OR of two AND groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	Y
0	x	x	0	x	1
0	x	x	1	0	1
x	x	x	1	1	0
1	0	x	0	x	1
1	0	x	1	0	1
1	1	0	0	x	1
1	1	0	1	0	1
1	1	1	x	x	0

Footprint

Cell Name	Area
AOI32X4H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**Y**
AOI32X4H7R	0.00175	0.00175	0.00194	0.00182	0.00186	0.07536

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI32X4H7R	0.00000	0.40023	1.01307

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X4H7R	A0->Y (FR)	0.03988	0.19586	0.65248
	A1->Y (FR)	0.03652	0.19087	0.64800
	A2->Y (FR)	0.03242	0.18539	0.64327
	B0->Y (FR)	0.03159	0.18874	0.66192
	B1->Y (FR)	0.02700	0.18280	0.65675

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI32X4H7R	A0->Y (RF)	0.03272	0.17024	0.57531
	A1->Y (RF)	0.03269	0.17555	0.61283
	A2->Y (RF)	0.02674	0.16809	0.60825
	B0->Y (RF)	0.01709	0.12334	0.48296
	B1->Y (RF)	0.01459	0.11978	0.49275

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X4H7R	A0	0.00448	0.00457	0.00495
	A0	-0.00059	-0.00055	-0.00054
	A0	0.00054	0.00054	0.00055
	A0	-0.00010	-0.00002	0.00040
	A1	0.00401	0.00414	0.00454
	A1	-0.00060	-0.00055	-0.00055
	A1	0.00031	0.00041	0.00049
	A1	-0.00007	0.00005	0.00049
	A2	0.00359	0.00371	0.00425
	A2	-0.00056	-0.00055	-0.00052
	A2	0.00020	0.00028	0.00034
	A2	-0.00011	0.00004	0.00064
	B0	0.00316	0.00333	0.00425
	B0	-0.00018	-0.00017	-0.00010
	B0	0.00054	0.00054	0.00055
	B0	-0.00030	-0.00009	0.00106
	B1	0.00271	0.00288	0.00393
	B1	-0.00018	-0.00017	-0.00014
	B1	0.00040	0.00040	0.00041
	B1	-0.00030	-0.00003	0.00137

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI32X4H7R	A0	-0.00026	-0.00018	0.00016
	A0	0.00055	0.00055	0.00059
	A0	-0.00041	-0.00041	-0.00040
	A0	0.00429	0.00439	0.00474
	A1	-0.00025	-0.00017	0.00029
	A1	0.00055	0.00055	0.00060
	A1	-0.00028	-0.00027	-0.00017
	A1	0.00371	0.00384	0.00432
	A2	-0.00026	-0.00012	0.00070
	A2	0.00056	0.00057	0.00061
	A2	-0.00014	-0.00013	-0.00006
	A2	0.00319	0.00342	0.00426
	B0	-0.00022	-0.00007	0.00081
	B0	0.00017	0.00018	0.00019
	B0	-0.00028	-0.00027	-0.00020
	B0	0.00330	0.00347	0.00421
	B1	-0.00020	0.00002	0.00133
	B1	0.00017	0.00018	0.00018
	B1	-0.00014	-0.00014	-0.00012
	B1	0.00271	0.00298	0.00413

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X4H7R	**(A1 * A2 * B0 * B1 * !Y)**	-0.00033	-0.00028	-0.00021
	(A1 * A2 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(A1 * A2 * B0 * B1 * !Y)	0.00056	0.00057	0.00058
	(A1 * !A2 * B0 * B1 * !Y)	-0.00041	-0.00041	-0.00041
	(A1 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !Y)	0.00003	0.00004	0.00004
	(A1 * !A2 * B0 * B1 * !Y)	0.00048	0.00048	0.00049
	(A1 * !A2 * !B1 * Y)	-0.00042	-0.00041	-0.00041
	(A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B1 * Y)	0.00048	0.00049	0.00049
	(A1 * !A2 * !B0 * B1 * Y)	-0.00041	-0.00041	-0.00041
	(A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B0 * B1 * Y)	0.00048	0.00049	0.00049
	(!A1 * B0 * B1 * !Y)	-0.00041	-0.00041	-0.00041
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * B1 * !Y)	0.00049	0.00050	0.00050
	(!A1 * A2 * !B1 * Y)	-0.00041	-0.00041	-0.00041
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	0.00050	0.00051	0.00051
	(!A1 * A2 * !B0 * B1 * Y)	-0.00041	-0.00041	-0.00041
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00050	0.00051	0.00051
	(!A1 * !A2 * !B1 * Y)	-0.00042	-0.00041	-0.00041
	(!A1 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !A2 * !B1 * Y)	0.00049	0.00049	0.00049
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00042	-0.00041	-0.00041
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !A2 * !B0 * B1 * Y)	0.00048	0.00049	0.00049

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X4H7R	**(A1 * A2 * B0 * B1 * !Y)**	0.00032	0.00032	0.00033
	(A1 * A2 * B0 * B1 * !Y)	0.00004	0.00005	0.00005
	(A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * !Y)	-0.00056	-0.00056	-0.00056
	(A1 * !A2 * B0 * B1 * !Y)	0.00041	0.00041	0.00041
	(A1 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !Y)	-0.00004	-0.00004	-0.00003
	(A1 * !A2 * B0 * B1 * !Y)	-0.00049	-0.00046	-0.00041
	(A1 * !A2 * !B1 * Y)	0.00042	0.00042	0.00042
	(A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B1 * Y)	-0.00049	-0.00045	-0.00040
	(A1 * !A2 * !B0 * B1 * Y)	0.00042	0.00042	0.00042
	(A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B0 * B1 * Y)	-0.00049	-0.00045	-0.00040
	(!A1 * B0 * B1 * !Y)	0.00041	0.00041	0.00041
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * B1 * !Y)	-0.00050	-0.00048	-0.00045
	(!A1 * A2 * !B1 * Y)	0.00042	0.00042	0.00042
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	-0.00049	-0.00047	-0.00043
	(!A1 * A2 * !B0 * B1 * Y)	0.00042	0.00042	0.00042
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00049	-0.00047	-0.00043
	(!A1 * !A2 * !B1 * Y)	0.00041	0.00042	0.00042
	(!A1 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !A2 * !B1 * Y)	-0.00049	-0.00047	-0.00043
	(!A1 * !A2 * !B0 * B1 * Y)	0.00041	0.00042	0.00042
	(!A1 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !A2 * !B0 * B1 * Y)	-0.00049	-0.00047	-0.00043

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X4H7R	**(A0 * A2 * B0 * B1 * !Y)**	-0.00032	-0.00027	-0.00021
	(A0 * A2 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * !Y)	0.00055	0.00056	0.00057
	(A0 * !A2 * B0 * B1 * !Y)	-0.00040	-0.00040	-0.00040
	(A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00004
	(A0 * !A2 * B0 * B1 * !Y)	0.00048	0.00049	0.00049
	(A0 * !A2 * !B1 * Y)	-0.00041	-0.00040	-0.00040
	(A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * Y)	0.00002	0.00002	0.00003
	(A0 * !A2 * !B1 * Y)	0.00051	0.00051	0.00051
	(A0 * !A2 * !B0 * B1 * Y)	-0.00041	-0.00040	-0.00040
	(A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00003
	(A0 * !A2 * !B0 * B1 * Y)	0.00051	0.00051	0.00051
	(!A0 * A2 * B0 * B1 * !Y)	-0.00041	-0.00040	-0.00040
	(!A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A2 * B0 * B1 * !Y)	0.00048	0.00048	0.00048
	(!A0 * A2 * !B1 * Y)	-0.00043	-0.00042	-0.00042
	(!A0 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B1 * Y)	0.00010	0.00010	0.00010
	(!A0 * A2 * !B1 * Y)	0.00013	0.00014	0.00014
	(!A0 * A2 * !B0 * B1 * Y)	-0.00043	-0.00042	-0.00042
	(!A0 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * Y)	0.00010	0.00010	0.00010
	(!A0 * A2 * !B0 * B1 * Y)	0.00013	0.00014	0.00014
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00041	-0.00041	-0.00040
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * B1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * B1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B1 * Y)	-0.00043	-0.00043	-0.00043
	(!A0 * !A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00043	-0.00043	-0.00043
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * B1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B0 * B1 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI32X4H7R	**(A0 * A2 * B0 * B1 * !Y)**	0.00032	0.00032	0.00032
	(A0 * A2 * B0 * B1 * !Y)	0.00004	0.00005	0.00005
	(A0 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * !Y)	-0.00055	-0.00055	-0.00055
	(A0 * !A2 * B0 * B1 * !Y)	0.00040	0.00040	0.00041
	(A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A2 * B0 * B1 * !Y)	-0.00049	-0.00047	-0.00044
	(A0 * !A2 * !B1 * Y)	0.00041	0.00042	0.00046
	(A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A2 * !B1 * Y)	-0.00049	-0.00047	-0.00042
	(A0 * !A2 * !B0 * B1 * Y)	0.00041	0.00042	0.00045
	(A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A2 * !B0 * B1 * Y)	-0.00049	-0.00047	-0.00042
	(!A0 * A2 * B0 * B1 * !Y)	0.00041	0.00041	0.00041
	(!A0 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * B0 * B1 * !Y)	-0.00048	-0.00046	-0.00043
	(!A0 * A2 * !B1 * Y)	0.00042	0.00043	0.00043
	(!A0 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * A2 * !B1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A2 * !B0 * B1 * Y)	0.00042	0.00043	0.00043
	(!A0 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A2 * B0 * B1 * !Y)	0.00041	0.00041	0.00041
	(!A0 * !A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * B1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * !B1 * Y)	0.00043	0.00044	0.00044
	(!A0 * !A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * B1 * Y)	0.00043	0.00044	0.00044
	(!A0 * !A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7R	(A0 * A1 * B0 * B1 * !Y)	-0.00034	-0.00028	-0.00021
	(A0 * A1 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * B0 * B1 * !Y)	0.00058	0.00058	0.00060
	(!A1 * B0 * B1 * !Y)	-0.00043	-0.00043	-0.00043
	(!A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * !Y)	0.00002	0.00003	0.00004
	(!A1 * B0 * B1 * !Y)	0.00051	0.00052	0.00053
	(!A1 * !B1 * Y)	-0.00060	-0.00059	-0.00059
	(!A1 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B1 * Y)	0.00006	0.00006	0.00007
	(!A1 * !B1 * Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * B1 * Y)	-0.00060	-0.00059	-0.00059
	(!A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00007
	(!A1 * !B0 * B1 * Y)	0.00014	0.00015	0.00015
	(!A0 * A1 * B0 * B1 * !Y)	-0.00043	-0.00043	-0.00043
	(!A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * !Y)	0.00003	0.00004	0.00005
	(!A0 * A1 * B0 * B1 * !Y)	0.00049	0.00050	0.00050
	(!A0 * A1 * !B1 * Y)	-0.00060	-0.00060	-0.00059
	(!A0 * A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * Y)	0.00007	0.00007	0.00008
	(!A0 * A1 * !B1 * Y)	0.00011	0.00012	0.00013
	(!A0 * A1 * !B0 * B1 * Y)	-0.00060	-0.00060	-0.00059
	(!A0 * A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * !B0 * B1 * Y)	0.00012	0.00013	0.00013

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7R	(A0 * A1 * B0 * B1 * !Y)	0.00033	0.00034	0.00034
	(A0 * A1 * B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * !Y)	-0.00058	-0.00058	-0.00057
	(!A1 * B0 * B1 * !Y)	0.00043	0.00043	0.00043
	(!A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * !Y)	-0.00004	-0.00003	-0.00002
	(!A1 * B0 * B1 * !Y)	-0.00052	-0.00050	-0.00046
	(!A1 * !B1 * Y)	0.00060	0.00060	0.00060
	(!A1 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * B1 * Y)	0.00059	0.00060	0.00060
	(!A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A1 * B0 * B1 * !Y)	0.00043	0.00043	0.00043
	(!A0 * A1 * B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B0 * B1 * !Y)	-0.00005	-0.00004	-0.00003
	(!A0 * A1 * B0 * B1 * !Y)	-0.00050	-0.00046	-0.00040
	(!A0 * A1 * !B1 * Y)	0.00060	0.00060	0.00060
	(!A0 * A1 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B1 * Y)	-0.00013	-0.00012	-0.00011
	(!A0 * A1 * !B0 * B1 * Y)	0.00060	0.00060	0.00060
	(!A0 * A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B0 * B1 * Y)	-0.00013	-0.00013	-0.00012

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7R	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * A2 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !Y)	0.00071	0.00072	0.00072
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * A2 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !Y)	0.00066	0.00067	0.00067
	(!A2 * !B1 * Y)	-0.00047	-0.00047	-0.00046
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A2 * !B1 * Y)	0.00048	0.00048	0.00048
	(!A1 * A2 * !B1 * Y)	-0.00047	-0.00047	-0.00046
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	0.00047	0.00048	0.00048
	(!A0 * A1 * A2 * !B1 * Y)	-0.00047	-0.00047	-0.00046
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00047	0.00048	0.00048

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7R	(A0 * A1 * A2 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * A2 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !Y)	-0.00072	-0.00071	-0.00071
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * A2 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !Y)	-0.00067	-0.00065	-0.00063
	(!A2 * !B1 * Y)	0.00047	0.00049	0.00051
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A2 * !B1 * Y)	-0.00046	-0.00043	-0.00039
	(!A1 * A2 * !B1 * Y)	0.00047	0.00049	0.00051
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B1 * Y)	-0.00046	-0.00043	-0.00038
	(!A0 * A1 * A2 * !B1 * Y)	0.00047	0.00049	0.00051
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * A2 * !B1 * Y)	-0.00046	-0.00043	-0.00038

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7R	(A0 * A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !Y)	0.00070	0.00071	0.00071
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * A2 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * !Y)	0.00066	0.00066	0.00066
	(!A2 * !B0 * Y)	-0.00062	-0.00062	-0.00061
	(!A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * Y)	0.00005	0.00006	0.00006
	(!A2 * !B0 * Y)	0.00008	0.00009	0.00009
	(!A1 * A2 * !B0 * Y)	-0.00062	-0.00062	-0.00061
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00005	0.00006	0.00006
	(!A1 * A2 * !B0 * Y)	0.00008	0.00009	0.00010
	(!A0 * A1 * A2 * !B0 * Y)	-0.00062	-0.00062	-0.00061
	(!A0 * A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * A2 * !B0 * Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
AOI32X4H7R	(A0 * A1 * A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !Y)	-0.00071	-0.00070	-0.00069
	(A0 * A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !Y)	0.00005	0.00006	0.00006
	(A0 * A1 * A2 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * !Y)	-0.00066	-0.00064	-0.00060
	(!A2 * !B0 * Y)	0.00062	0.00062	0.00062
	(!A2 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A2 * !B0 * Y)	-0.00006	-0.00006	-0.00005
	(!A2 * !B0 * Y)	-0.00009	-0.00008	-0.00008
	(!A1 * A2 * !B0 * Y)	0.00061	0.00062	0.00062
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B0 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * A1 * A2 * !B0 * Y)	0.00061	0.00062	0.00062
	(!A0 * A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * A2 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * A2 * !B0 * Y)	-0.00008	-0.00008	-0.00008

AOI33X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	Y
0	x	x	0	x	x	1
0	x	x	1	0	x	1
0	x	x	1	1	0	1
x	x	x	1	1	1	0
1	0	x	0	x	x	1
1	0	x	1	0	x	1
1	0	x	1	1	0	1
1	1	0	0	x	x	1
1	1	0	1	0	x	1
1	1	0	1	1	0	1
1	1	1	x	x	x	0

Footprint

Cell Name	Area
AOI33X0P5H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
AOI33X0P5H7R	0.00061	0.00061	0.00072	0.00068	0.00067	0.00073	0.02084

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI33X0P5H7R	0.00000	0.10116	0.29244

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X0P5H7R	A0->Y (FR)	0.05563	0.20930	0.65061
	A1->Y (FR)	0.05299	0.20570	0.64793
	A2->Y (FR)	0.05105	0.20279	0.64504
	B0->Y (FR)	0.04694	0.20186	0.66055
	B1->Y (FR)	0.04343	0.19731	0.65681
	B2->Y (FR)	0.04096	0.19379	0.65305

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X0P5H7R	A0->Y (RF)	0.04909	0.18549	0.58114
	A1->Y (RF)	0.04812	0.19188	0.62031
	A2->Y (RF)	0.04735	0.18826	0.61640
	B0->Y (RF)	0.03847	0.17170	0.56919
	B1->Y (RF)	0.03648	0.17646	0.60657
	B2->Y (RF)	0.03415	0.17218	0.60375

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X0P5H7R	A0	0.00158	0.00160	0.00171
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00018	0.00018	0.00018
	A0	-0.00009	-0.00006	0.00007
	A1	0.00148	0.00152	0.00162
	A1	-0.00018	-0.00018	-0.00016
	A1	0.00015	0.00015	0.00015
	A1	-0.00001	0.00001	0.00015
	A2	0.00141	0.00144	0.00156
	A2	-0.00018	-0.00018	-0.00015
	A2	0.00007	0.00011	0.00013
	A2	-0.00003	0.00001	0.00016
	B0	0.00111	0.00117	0.00141
	B0	-0.00007	-0.00007	0.00000
	B0	0.00018	0.00018	0.00018
	B0	-0.00012	-0.00007	0.00021
	B1	0.00101	0.00107	0.00130
	B1	-0.00007	-0.00007	-0.00005
	B1	0.00014	0.00015	0.00015
	B1	-0.00008	-0.00002	0.00026
	B2	0.00094	0.00099	0.00123
	B2	-0.00007	-0.00007	-0.00006
	B2	0.00011	0.00011	0.00011
	B2	-0.00007	-0.00001	0.00031

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X0P5H7R	A0	-0.00007	-0.00005	0.00006
	A0	0.00019	0.00019	0.00020
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00156	0.00160	0.00171
	A1	-0.00007	-0.00004	0.00008
	A1	0.00019	0.00019	0.00019
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00139	0.00142	0.00155
	A2	-0.00008	-0.00004	0.00017
	A2	0.00019	0.00019	0.00022
	A2	-0.00004	-0.00003	-0.00003
	A2	0.00127	0.00135	0.00155
	B0	-0.00001	0.00003	0.00018
	B0	0.00007	0.00007	0.00008
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00129	0.00132	0.00145
	B1	-0.00000	0.00003	0.00021
	B1	0.00007	0.00007	0.00007
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00113	0.00116	0.00131
	B2	-0.00001	0.00005	0.00031
	B2	0.00007	0.00007	0.00008
	B2	-0.00004	-0.00003	-0.00003
	B2	0.00101	0.00106	0.00130

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7R	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00009	-0.00007	-0.00005
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00023	0.00023	0.00024
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00021	0.00021	0.00021
	(A1 * !A2 * !B2 * Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B2 * Y)	0.00021	0.00021	0.00022
	(A1 * !A2 * !B1 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00022
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * B1 * B2 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00021	0.00021	0.00022
	(!A1 * A2 * !B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * A2 * !B2 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B1 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * !A2 * !B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00022
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7R	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00011	0.00011	0.00011
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00021	-0.00021	-0.00019
	(A1 * !A2 * !B2 * Y)	0.00011	0.00011	0.00011
	(A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B2 * Y)	-0.00021	-0.00021	-0.00019
	(A1 * !A2 * !B1 * B2 * Y)	0.00011	0.00011	0.00011
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00019
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00011	0.00011	0.00011
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00021	-0.00021	-0.00019
	(!A1 * B0 * B1 * B2 * !Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * A2 * !B2 * Y)	0.00011	0.00011	0.00011
	(!A1 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * !B1 * B2 * Y)	0.00011	0.00011	0.00011
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00011	0.00011	0.00011
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !A2 * !B2 * Y)	0.00011	0.00011	0.00011
	(!A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !A2 * !B1 * B2 * Y)	0.00011	0.00011	0.00011
	(!A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00011	0.00011	0.00011
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7R	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00009	-0.00008	-0.00006
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00016	0.00017	0.00017
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00013	-0.00012	-0.00012
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B2 * Y)	-0.00012	-0.00012	-0.00012
	(A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B2 * Y)	0.00015	0.00015	0.00015
	(A0 * !A2 * !B1 * B2 * Y)	-0.00012	-0.00012	-0.00012
	(A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	0.00015	0.00015	0.00015
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00012	-0.00013	-0.00012
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7R	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00009	0.00009	0.00010
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00012	0.00013	0.00013
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !A2 * !B2 * Y)	0.00013	0.00013	0.00014
	(A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B2 * Y)	-0.00015	-0.00014	-0.00013
	(A0 * !A2 * !B1 * B2 * Y)	0.00013	0.00013	0.00014
	(A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00015	-0.00014	-0.00013
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00013	0.00013	0.00014
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00012	0.00013	0.00013
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * A2 * !B2 * Y)	0.00012	0.00013	0.00013
	(!A0 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00012	0.00013	0.00013
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7R	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00010	-0.00008	-0.00006
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * B1 * B2 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00018	0.00018	0.00019
	(!A1 * !B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * !B2 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B1 * B2 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * B2 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7R	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00010	0.00010	0.00010
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * B1 * B2 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * A1 * !B2 * Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B2 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B1 * B2 * Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00019	0.00020	0.00020
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7R	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00026	0.00026	0.00026
	(!A2 * B1 * !B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B1 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A2 * !B1 * B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00017
	(!A2 * !B1 * !B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * B1 * !B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B1 * B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00017	0.00017	0.00017

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7R	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00026	-0.00025	-0.00024
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00026	-0.00026	-0.00025
	(!A2 * B1 * !B2 * Y)	0.00016	0.00016	0.00017
	(!A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B1 * !B2 * Y)	-0.00017	-0.00016	-0.00015
	(!A2 * !B1 * B2 * Y)	0.00016	0.00016	0.00017
	(!A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * B2 * Y)	-0.00017	-0.00016	-0.00015
	(!A2 * !B1 * !B2 * Y)	0.00016	0.00016	0.00017
	(!A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00017	-0.00016	-0.00015
	(!A1 * A2 * B1 * !B2 * Y)	0.00016	0.00016	0.00017
	(!A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00017	-0.00016	-0.00015
	(!A1 * A2 * !B1 * B2 * Y)	0.00016	0.00016	0.00017
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00017	-0.00016	-0.00015
	(!A1 * A2 * !B1 * !B2 * Y)	0.00016	0.00016	0.00017
	(!A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7R	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00022	0.00023	0.00023
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00022	0.00022	0.00022
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00021	0.00021	0.00022
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00013	0.00013	0.00013
	(!A2 * B0 * !B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	0.00013	0.00014	0.00014
	(!A2 * !B0 * B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B2 * Y)	0.00004	0.00005	0.00005
	(!A2 * !B0 * !B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * !B2 * Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * B0 * !B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	0.00013	0.00014	0.00014
	(!A1 * A2 * !B0 * B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00005	0.00005
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00013	0.00014	0.00014
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00005	0.00005
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7R	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00022	-0.00021	-0.00020
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00022	-0.00021	-0.00020
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00013	-0.00013	-0.00013
	(!A2 * B0 * !B2 * Y)	0.00016	0.00016	0.00017
	(!A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B0 * !B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A2 * !B0 * B2 * Y)	0.00016	0.00016	0.00016
	(!A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * !B2 * Y)	0.00016	0.00016	0.00016
	(!A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00005	-0.00004
	(!A1 * A2 * B0 * !B2 * Y)	0.00016	0.00016	0.00017
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * A2 * !B0 * B2 * Y)	0.00016	0.00016	0.00016
	(!A1 * A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	0.00016	0.00016	0.00016
	(!A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00005	-0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00005	-0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00005	-0.00004

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7R	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * A2 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00023	0.00023	0.00023
	(!A2 * !B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A2 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P5H7R	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00025	-0.00025	-0.00024
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00024	-0.00023	-0.00023
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00023	-0.00022	-0.00020
	(!A2 * !B1 * Y)	0.00022	0.00022	0.00022
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003

AOI33X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	Y
0	x	x	0	x	x	1
0	x	x	1	0	x	1
0	x	x	1	1	0	1
x	x	x	1	1	1	0
1	0	x	0	x	x	1
1	0	x	1	0	x	1
1	0	x	1	1	0	1
1	1	0	0	x	x	1
1	1	0	1	0	x	1
1	1	0	1	1	0	1
1	1	1	x	x	x	0

Footprint

Cell Name	Area
AOI33X0P7H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
AOI33X0P7H7R	0.00064	0.00064	0.00075	0.00070	0.00071	0.00078	0.02366

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI33X0P7H7R	0.00000	0.11373	0.32991

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X0P7H7R	A0->Y (FR)	0.05316	0.20777	0.65263
	A1->Y (FR)	0.05037	0.20402	0.64982
	A2->Y (FR)	0.04813	0.20081	0.64651
	B0->Y (FR)	0.04383	0.19955	0.66112
	B1->Y (FR)	0.04063	0.19523	0.65732
	B2->Y (FR)	0.03797	0.19152	0.65431

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X0P7H7R	A0->Y (RF)	0.04643	0.18310	0.58031
	A1->Y (RF)	0.04517	0.18908	0.61923
	A2->Y (RF)	0.04321	0.18490	0.61442
	B0->Y (RF)	0.03524	0.16851	0.56699
	B1->Y (RF)	0.03353	0.17343	0.60615
	B2->Y (RF)	0.03102	0.16868	0.60132

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X0P7H7R	A0	0.00172	0.00175	0.00187
	A0	-0.00023	-0.00021	-0.00020
	A0	0.00021	0.00021	0.00021
	A0	-0.00009	-0.00006	0.00008
	A1	0.00162	0.00165	0.00176
	A1	-0.00022	-0.00021	-0.00020
	A1	0.00017	0.00017	0.00017
	A1	-0.00003	0.00000	0.00015
	A2	0.00152	0.00156	0.00169
	A2	-0.00022	-0.00021	-0.00019
	A2	0.00012	0.00013	0.00014
	A2	-0.00004	0.00001	0.00017
	B0	0.00119	0.00126	0.00153
	B0	-0.00008	-0.00008	0.00000
	B0	0.00021	0.00021	0.00021
	B0	-0.00014	-0.00008	0.00024
	B1	0.00110	0.00115	0.00142
	B1	-0.00008	-0.00008	-0.00006
	B1	0.00017	0.00017	0.00017
	B1	-0.00009	-0.00002	0.00030
	B2	0.00100	0.00106	0.00134
	B2	-0.00008	-0.00008	-0.00006
	B2	0.00012	0.00013	0.00013
	B2	-0.00008	-0.00001	0.00035

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X0P7H7R	A0	-0.00008	-0.00005	0.00006
	A0	0.00020	0.00021	0.00023
	A0	-0.00013	-0.00013	-0.00012
	A0	0.00170	0.00174	0.00186
	A1	-0.00008	-0.00005	0.00009
	A1	0.00022	0.00022	0.00022
	A1	-0.00009	-0.00008	-0.00008
	A1	0.00153	0.00156	0.00170
	A2	-0.00008	-0.00004	0.00019
	A2	0.00021	0.00022	0.00022
	A2	-0.00004	-0.00004	-0.00004
	A2	0.00138	0.00146	0.00170
	B0	-0.00002	0.00002	0.00019
	B0	0.00008	0.00008	0.00008
	B0	-0.00013	-0.00013	-0.00012
	B0	0.00136	0.00142	0.00157
	B1	-0.00002	0.00002	0.00022
	B1	0.00008	0.00008	0.00008
	B1	-0.00009	-0.00008	-0.00008
	B1	0.00117	0.00124	0.00142
	B2	-0.00002	0.00004	0.00034
	B2	0.00008	0.00008	0.00008
	B2	-0.00004	-0.00004	-0.00004
	B2	0.00108	0.00113	0.00141

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7R	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00010	-0.00008	-0.00006
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00023	0.00024	0.00024
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00021	0.00021	0.00021
	(A1 * !A2 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B2 * Y)	0.00021	0.00021	0.00022
	(A1 * !A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00022
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * B1 * B2 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00021	0.00021	0.00022
	(!A1 * A2 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * !A2 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00022
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7R	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00010	0.00010	0.00010
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00021	-0.00021	-0.00020
	(A1 * !A2 * !B2 * Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B2 * Y)	-0.00021	-0.00021	-0.00019
	(A1 * !A2 * !B1 * B2 * Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00019
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00013	0.00013	0.00013
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00021	-0.00021	-0.00019
	(!A1 * B0 * B1 * B2 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * A2 * !B2 * Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B2 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * A2 * !B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00020
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !A2 * !B2 * Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !A2 * !B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7R	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00011	-0.00009	-0.00006
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00018	0.00018	0.00019
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * !B2 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B2 * Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * !B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00015	0.00016	0.00016
	(!A0 * A2 * !B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B2 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7R	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00010	0.00011	0.00011
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00013	0.00014	0.00014
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * !A2 * !B2 * Y)	0.00014	0.00014	0.00015
	(A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B2 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * !A2 * !B1 * B2 * Y)	0.00014	0.00014	0.00015
	(A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00014	0.00014	0.00015
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A2 * !B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7R	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00011	-0.00009	-0.00007
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * B1 * B2 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B2 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B1 * B2 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * B2 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B2 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * B2 * Y)	0.00005	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7R	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00011	0.00011	0.00011
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * B1 * B2 * !Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B2 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00019	-0.00017	-0.00016
	(!A0 * A1 * !B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7R	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00027	0.00027	0.00027
	(!A2 * B1 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A2 * !B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A2 * !B1 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	0.00018	0.00018	0.00019
	(!A1 * A2 * B1 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A1 * A2 * !B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7R	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00027	-0.00026	-0.00025
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00027	-0.00027	-0.00026
	(!A2 * B1 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B1 * !B2 * Y)	-0.00018	-0.00017	-0.00016
	(!A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00017
	(!A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A2 * !B1 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * A2 * B1 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A1 * A2 * !B1 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00018	-0.00018	-0.00017

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7R	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00000	0.00000	0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00023	0.00023	0.00023
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00013	0.00013	0.00013
	(!A2 * B0 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	0.00014	0.00015	0.00015
	(!A2 * !B0 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * B0 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	0.00014	0.00015	0.00015
	(!A1 * A2 * !B0 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00014	0.00015	0.00015
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7R	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00023	-0.00022	-0.00021
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00023	-0.00022	-0.00021
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00013	-0.00013	-0.00013
	(!A2 * B0 * !B2 * Y)	0.00017	0.00018	0.00018
	(!A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B0 * !B2 * Y)	-0.00014	-0.00013	-0.00012
	(!A2 * !B0 * B2 * Y)	0.00017	0.00017	0.00017
	(!A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * !B2 * Y)	0.00017	0.00017	0.00018
	(!A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * B0 * !B2 * Y)	0.00017	0.00018	0.00018
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00014	-0.00013	-0.00012
	(!A1 * A2 * !B0 * B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	0.00017	0.00017	0.00018
	(!A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00017	0.00018	0.00018
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7R	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00026	0.00027	0.00027
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00025	0.00025	0.00025
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00025	0.00025	0.00025
	(!A2 * !B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A2 * !B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A2 * !B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * A2 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X0P7H7R	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00025	-0.00025	-0.00024
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00025	-0.00024	-0.00021
	(!A2 * !B1 * Y)	0.00023	0.00023	0.00024
	(!A2 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	0.00023	0.00023	0.00024
	(!A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	0.00023	0.00023	0.00024
	(!A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00023	0.00023	0.00024
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003

AOI33X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	Y
0	x	x	0	x	x	1
0	x	x	1	0	x	1
0	x	x	1	1	0	1
x	x	x	1	1	1	0
1	0	x	0	x	x	1
1	0	x	1	0	x	1
1	0	x	1	1	0	1
1	1	0	0	x	x	1
1	1	0	1	0	x	1
1	1	0	1	1	0	1
1	1	1	x	x	x	0

Footprint

Cell Name	Area
AOI33X1H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	B0	B1	B2	Y
AOI33X1H7R	0.00069	0.00073	0.00084	0.00076	0.00079	0.00085	0.02817

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI33X1H7R	0.00000	0.13209	0.38133

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X1H7R	A0->Y (FR)	0.05001	0.20549	0.65436
	A1->Y (FR)	0.04738	0.20184	0.65156
	A2->Y (FR)	0.04502	0.19848	0.64867
	B0->Y (FR)	0.04075	0.19708	0.66255
	B1->Y (FR)	0.03755	0.19278	0.65877
	B2->Y (FR)	0.03500	0.18914	0.65574

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X1H7R	A0->Y (RF)	0.04418	0.18314	0.58724
	A1->Y (RF)	0.04297	0.18901	0.62560
	A2->Y (RF)	0.04074	0.18440	0.62081
	B0->Y (RF)	0.03284	0.16823	0.57478
	B1->Y (RF)	0.03112	0.17296	0.61206
	B2->Y (RF)	0.02865	0.16803	0.60665

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X1H7R	A0	0.00197	0.00200	0.00213
	A0	-0.00026	-0.00026	-0.00024
	A0	0.00024	0.00025	0.00025
	A0	-0.00007	-0.00004	0.00012
	A1	0.00185	0.00188	0.00201
	A1	-0.00026	-0.00026	-0.00024
	A1	0.00020	0.00020	0.00020
	A1	-0.00001	0.00002	0.00019
	A2	0.00173	0.00177	0.00191
	A2	-0.00026	-0.00026	-0.00024
	A2	0.00015	0.00015	0.00016
	A2	-0.00002	0.00003	0.00022
	B0	0.00134	0.00143	0.00174
	B0	-0.00010	-0.00009	-0.00001
	B0	0.00024	0.00025	0.00025
	B0	-0.00013	-0.00006	0.00031
	B1	0.00123	0.00130	0.00161
	B1	-0.00010	-0.00010	-0.00007
	B1	0.00020	0.00020	0.00020
	B1	-0.00009	-0.00002	0.00035
	B2	0.00112	0.00119	0.00152
	B2	-0.00010	-0.00010	-0.00007
	B2	0.00015	0.00015	0.00016
	B2	-0.00009	-0.00001	0.00042

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X1H7R	A0	-0.00009	-0.00006	0.00007
	A0	0.00025	0.00026	0.00029
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00191	0.00195	0.00209
	A1	-0.00009	-0.00006	0.00010
	A1	0.00026	0.00026	0.00028
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00171	0.00176	0.00193
	A2	-0.00011	-0.00005	0.00023
	A2	0.00027	0.00027	0.00027
	A2	-0.00005	-0.00005	-0.00003
	A2	0.00156	0.00164	0.00192
	B0	-0.00003	0.00001	0.00022
	B0	0.00010	0.00010	0.00010
	B0	-0.00015	-0.00015	-0.00014
	B0	0.00153	0.00158	0.00176
	B1	-0.00003	0.00002	0.00026
	B1	0.00009	0.00010	0.00010
	B1	-0.00010	-0.00010	-0.00008
	B1	0.00135	0.00139	0.00160
	B2	-0.00003	0.00004	0.00040
	B2	0.00007	0.00010	0.00010
	B2	-0.00005	-0.00005	-0.00004
	B2	0.00120	0.00127	0.00160

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7R	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00012	-0.00010	-0.00007
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00024	0.00025	0.00025
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00015	-0.00015	-0.00015
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00022	0.00022	0.00022
	(A1 * !A2 * !B2 * Y)	-0.00015	-0.00015	-0.00015
	(A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B2 * Y)	0.00022	0.00022	0.00023
	(A1 * !A2 * !B1 * B2 * Y)	-0.00015	-0.00015	-0.00015
	(A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	0.00022	0.00022	0.00022
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00015	-0.00015	-0.00015
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * B1 * B2 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B2 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * A2 * !B2 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B1 * B2 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A1 * !A2 * !B2 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7R	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00011	0.00012	0.00012
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00015	0.00015	0.00015
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00022	-0.00021	-0.00020
	(A1 * !A2 * !B2 * Y)	0.00015	0.00015	0.00015
	(A1 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B2 * Y)	-0.00022	-0.00021	-0.00020
	(A1 * !A2 * !B1 * B2 * Y)	0.00015	0.00015	0.00015
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00022	-0.00021	-0.00020
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00015	0.00015	0.00015
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * B0 * B1 * B2 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * A2 * !B2 * Y)	0.00015	0.00015	0.00015
	(!A1 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B2 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * A2 * !B1 * B2 * Y)	0.00015	0.00015	0.00015
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00015	0.00015	0.00015
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !A2 * !B2 * Y)	0.00015	0.00015	0.00015
	(!A1 * !A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !A2 * !B1 * B2 * Y)	0.00015	0.00015	0.00015
	(!A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00015	0.00015	0.00015
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7R	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00012	-0.00010	-0.00008
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00019	0.00020	0.00020
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A2 * !B2 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B2 * Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * !B1 * B2 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * !B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7R	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00012	0.00012	0.00012
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00017	-0.00016	-0.00016
	(A0 * !A2 * !B2 * Y)	0.00016	0.00016	0.00017
	(A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B2 * Y)	-0.00017	-0.00016	-0.00015
	(A0 * !A2 * !B1 * B2 * Y)	0.00016	0.00016	0.00017
	(A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00017	-0.00016	-0.00015
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00016	0.00016	0.00017
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A2 * !B2 * Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * !B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * B2 * Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7R	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00012	-0.00010	-0.00008
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * B1 * B2 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B2 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B2 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B1 * B2 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * B2 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B2 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B2 * Y)	0.00005	0.00005	0.00006
	(!A0 * A1 * !B1 * B2 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B1 * B2 * Y)	0.00005	0.00005	0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7R	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00012	0.00012	0.00012
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * B0 * B1 * B2 * !Y)	0.00015	0.00015	0.00016
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !B2 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B1 * B2 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * B2 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * A1 * !B2 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * B2 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7R	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00027	0.00028	0.00028
	(!A2 * B1 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A2 * !B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	0.00018	0.00019	0.00019
	(!A2 * !B1 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A1 * A2 * B1 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A1 * A2 * !B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00018	0.00019	0.00019
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7R	**(A0 * A1 * A2 * B1 * B2 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00000	-0.00001	-0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00027	-0.00027	-0.00025
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00028	-0.00027	-0.00026
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00028	-0.00027	-0.00026
	(!A2 * B1 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A2 * B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B1 * !B2 * Y)	-0.00018	-0.00017	-0.00015
	(!A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A2 * !B1 * B2 * Y)	0.00000	0.00000	0.00001
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * B2 * Y)	-0.00018	-0.00017	-0.00016
	(!A2 * !B1 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A2 * !B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * A2 * B1 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00018	-0.00017	-0.00015
	(!A1 * A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00018	-0.00017	-0.00016
	(!A1 * A2 * !B1 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7R	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00024	0.00025	0.00025
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00024	0.00024	0.00024
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00014	0.00014	0.00014
	(!A2 * B0 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	0.00015	0.00016	0.00016
	(!A2 * !B0 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B0 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * B0 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	0.00016	0.00016	0.00016
	(!A1 * A2 * !B0 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7R	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00014	-0.00014	-0.00014
	(!A2 * B0 * !B2 * Y)	0.00019	0.00019	0.00020
	(!A2 * B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B0 * !B2 * Y)	-0.00015	-0.00014	-0.00013
	(!A2 * !B0 * B2 * Y)	0.00019	0.00019	0.00019
	(!A2 * !B0 * B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A2 * !B0 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A2 * !B0 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * B0 * !B2 * Y)	0.00019	0.00019	0.00020
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00015	-0.00014	-0.00013
	(!A1 * A2 * !B0 * B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B0 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7R	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !Y)	0.00027	0.00027	0.00027
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00027	0.00027	0.00027
	(!A2 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * A2 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1H7R	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00029	-0.00029	-0.00028
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00027	-0.00025	-0.00023
	(!A2 * !B1 * Y)	0.00026	0.00026	0.00026
	(!A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	0.00026	0.00026	0.00026
	(!A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003

AOI33X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
0	**x**	**x**	**0**	**x**	**x**	**1**
0	**x**	**x**	**1**	**0**	**x**	**1**
0	**x**	**x**	**1**	**1**	**0**	**1**
x	**x**	**x**	**1**	**1**	**1**	**0**
1	**0**	**x**	**0**	**x**	**x**	**1**
1	**0**	**x**	**1**	**0**	**x**	**1**
1	**0**	**x**	**1**	**1**	**0**	**1**
1	**1**	**0**	**0**	**x**	**x**	**1**
1	**1**	**0**	**1**	**0**	**x**	**1**
1	**1**	**0**	**1**	**1**	**0**	**1**
1	**1**	**1**	**x**	**x**	**x**	**0**

Footprint

Cell Name	Area
AOI33X1P4H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
AOI33X1P4H7R	0.00075	0.00077	0.00089	0.00081	0.00086	0.00091	0.03208

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI33X1P4H7R	0.00000	0.14981	0.43236

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X1P4H7R	A0->Y (FR)	0.04742	0.20304	0.65475
	A1->Y (FR)	0.04469	0.19927	0.65091
	A2->Y (FR)	0.04221	0.19581	0.64810
	B0->Y (FR)	0.03851	0.19497	0.66205
	B1->Y (FR)	0.03557	0.19086	0.65865
	B2->Y (FR)	0.03271	0.18693	0.65545

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X1P4H7R	A0->Y (RF)	0.04133	0.17952	0.58350
	A1->Y (RF)	0.04006	0.18524	0.62184
	A2->Y (RF)	0.03884	0.18059	0.61544
	B0->Y (RF)	0.03032	0.16489	0.57002
	B1->Y (RF)	0.02875	0.16965	0.60864
	B2->Y (RF)	0.02604	0.16431	0.60208

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X1P4H7R	A0	0.00211	0.00217	0.00233
	A0	-0.00030	-0.00030	-0.00029
	A0	0.00028	0.00028	0.00029
	A0	-0.00011	-0.00008	0.00011
	A1	0.00199	0.00203	0.00219
	A1	-0.00031	-0.00030	-0.00030
	A1	0.00023	0.00023	0.00023
	A1	-0.00005	-0.00001	0.00018
	A2	0.00186	0.00191	0.00208
	A2	-0.00031	-0.00030	-0.00028
	A2	0.00017	0.00017	0.00024
	A2	-0.00007	-0.00001	0.00022
	B0	0.00148	0.00157	0.00193
	B0	-0.00011	-0.00011	-0.00001
	B0	0.00028	0.00028	0.00028
	B0	-0.00014	-0.00007	0.00036
	B1	0.00135	0.00143	0.00179
	B1	-0.00011	-0.00011	-0.00008
	B1	0.00023	0.00023	0.00025
	B1	-0.00011	-0.00003	0.00040
	B2	0.00122	0.00130	0.00169
	B2	-0.00011	-0.00011	-0.00004
	B2	0.00017	0.00017	0.00017
	B2	-0.00010	-0.00001	0.00049

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X1P4H7R	A0	-0.00010	-0.00007	0.00008
	A0	0.00030	0.00030	0.00034
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00210	0.00216	0.00232
	A1	-0.00010	-0.00007	0.00012
	A1	0.00031	0.00031	0.00033
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00189	0.00194	0.00213
	A2	-0.00011	-0.00005	0.00026
	A2	0.00030	0.00031	0.00032
	A2	-0.00006	-0.00006	-0.00005
	A2	0.00168	0.00181	0.00213
	B0	-0.00006	-0.00001	0.00024
	B0	0.00001	0.00011	0.00012
	B0	-0.00017	-0.00017	-0.00017
	B0	0.00166	0.00170	0.00192
	B1	-0.00007	-0.00001	0.00027
	B1	0.00009	0.00012	0.00031
	B1	-0.00012	-0.00011	-0.00010
	B1	0.00145	0.00150	0.00176
	B2	-0.00006	0.00002	0.00045
	B2	0.00011	0.00012	0.00031
	B2	-0.00006	-0.00006	-0.00005
	B2	0.00129	0.00136	0.00175

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7R	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00013	-0.00011	-0.00009
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00026	0.00026	0.00026
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00017	-0.00016	-0.00016
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00023	0.00023	0.00023
	(A1 * !A2 * !B2 * Y)	-0.00017	-0.00016	-0.00016
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B2 * Y)	0.00023	0.00024	0.00024
	(A1 * !A2 * !B1 * B2 * Y)	-0.00017	-0.00016	-0.00016
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B1 * B2 * Y)	0.00023	0.00024	0.00024
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00017	-0.00016	-0.00016
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * B1 * B2 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * B1 * B2 * !Y)	0.00023	0.00024	0.00024
	(!A1 * A2 * !B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B2 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B1 * B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00024	0.00024	0.00024
	(!A1 * !A2 * !B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !A2 * !B2 * Y)	-0.00000	-0.00001	-0.00000
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	0.00023	0.00024	0.00024
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	0.00023	0.00024	0.00024
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00023	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7R	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00013	0.00013	0.00013
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00016	0.00016	0.00017
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00023	-0.00022	-0.00021
	(A1 * !A2 * !B2 * Y)	0.00017	0.00017	0.00017
	(A1 * !A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B2 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B2 * Y)	-0.00023	-0.00022	-0.00021
	(A1 * !A2 * !B1 * B2 * Y)	0.00017	0.00017	0.00017
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00023	-0.00022	-0.00021
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00017	0.00017	0.00017
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00023	-0.00022	-0.00021
	(!A1 * B0 * B1 * B2 * !Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * A2 * !B2 * Y)	0.00016	0.00016	0.00017
	(!A1 * A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B2 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * A2 * !B1 * B2 * Y)	0.00016	0.00016	0.00017
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00016	0.00016	0.00017
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !A2 * !B2 * Y)	0.00016	0.00016	0.00017
	(!A1 * !A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !A2 * !B1 * B2 * Y)	0.00016	0.00016	0.00017
	(!A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00016	0.00016	0.00017
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7R	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00014	-0.00012	-0.00009
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00020	0.00021	0.00021
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00001	-0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * !B2 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * !B2 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B2 * Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00000	-0.00001	-0.00000
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * !B2 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * B2 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7R	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00014	0.00014	0.00014
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * !A2 * !B2 * Y)	0.00017	0.00018	0.00019
	(A0 * !A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B2 * Y)	-0.00018	-0.00017	-0.00016
	(A0 * !A2 * !B1 * B2 * Y)	0.00018	0.00018	0.00019
	(A0 * !A2 * !B1 * B2 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00018	-0.00017	-0.00016
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00018	0.00018	0.00019
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A2 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * B2 * Y)	0.00017	0.00018	0.00018
	(!A0 * A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00017	0.00018	0.00018
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7R	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00014	-0.00012	-0.00009
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00025	0.00025	0.00026
	(!A1 * B0 * B1 * B2 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B2 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B1 * B2 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * B2 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B2 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B2 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B2 * Y)	0.00005	0.00005	0.00006
	(!A0 * A1 * !B1 * B2 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * B2 * Y)	0.00005	0.00005	0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7R	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00014	0.00014	0.00014
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * B1 * B2 * !Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00023	-0.00022	-0.00021
	(!A1 * !B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B1 * B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00022	-0.00020	-0.00018
	(!A0 * A1 * !B2 * Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * !B2 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * B2 * Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7R	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00028	0.00028	0.00029
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00029	0.00029	0.00029
	(!A2 * B1 * !B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B1 * !B2 * Y)	0.00019	0.00019	0.00020
	(!A2 * !B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A2 * !B1 * !B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * B1 * !B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00019	0.00019	0.00020
	(!A1 * A2 * !B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7R	**(A0 * A1 * A2 * B1 * B2 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00029	-0.00028	-0.00026
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00029	-0.00028	-0.00027
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00029	-0.00028	-0.00027
	(!A2 * B1 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A2 * B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B1 * !B2 * Y)	-0.00019	-0.00018	-0.00016
	(!A2 * !B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * B2 * Y)	-0.00019	-0.00019	-0.00017
	(!A2 * !B1 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A2 * !B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00019	-0.00019	-0.00017
	(!A1 * A2 * B1 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00019	-0.00018	-0.00016
	(!A1 * A2 * !B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00019	-0.00019	-0.00017
	(!A1 * A2 * !B1 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00019	-0.00019	-0.00017
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00019	-0.00019	-0.00017
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00019	-0.00019	-0.00017

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7R	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00026	0.00026	0.00026
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00014	0.00014	0.00014
	(!A2 * B0 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A2 * !B0 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A2 * !B0 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B0 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * B0 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B0 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7R	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00026	-0.00025	-0.00024
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00014	-0.00014	-0.00014
	(!A2 * B0 * !B2 * Y)	0.00021	0.00022	0.00023
	(!A2 * B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B0 * !B2 * Y)	-0.00017	-0.00016	-0.00014
	(!A2 * !B0 * B2 * Y)	0.00021	0.00021	0.00021
	(!A2 * !B0 * B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A2 * !B0 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A2 * !B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B0 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * B0 * !B2 * Y)	0.00021	0.00022	0.00023
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00017	-0.00016	-0.00015
	(!A1 * A2 * !B0 * B2 * Y)	0.00021	0.00021	0.00021
	(!A1 * A2 * !B0 * B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00021	0.00022	0.00023
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00004	-0.00004

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7R	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00030	0.00030	0.00031
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00029	0.00029	0.00029
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00028	0.00028	0.00028
	(!A2 * !B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X1P4H7R	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00031	-0.00030	-0.00030
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00029	-0.00028	-0.00027
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00028	-0.00026	-0.00024
	(!A2 * !B1 * Y)	0.00028	0.00028	0.00028
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	0.00028	0.00028	0.00028
	(!A2 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	0.00028	0.00028	0.00028
	(!A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00028	0.00028	0.00028
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003

AOI33X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	Y
0	x	x	0	x	x	1
0	x	x	1	0	x	1
0	x	x	1	1	0	1
x	x	x	1	1	1	0
1	0	x	0	x	x	1
1	0	x	1	0	x	1
1	0	x	1	1	0	1
1	1	0	0	x	x	1
1	1	0	1	0	x	1
1	1	0	1	1	0	1
1	1	1	x	x	x	0

Footprint

Cell Name	Area
AOI33X2H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	B0	B1	B2	Y
AOI33X2H7R	0.00083	0.00086	0.00095	0.00090	0.00089	0.00091	0.03772

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI33X2H7R	0.00000	0.17707	0.51280

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X2H7R	A0->Y (FR)	0.04514	0.20141	0.65565
	A1->Y (FR)	0.04240	0.19755	0.65161
	A2->Y (FR)	0.03952	0.19370	0.64889
	B0->Y (FR)	0.03673	0.19381	0.66401
	B1->Y (FR)	0.03337	0.18921	0.65919
	B2->Y (FR)	0.02997	0.18480	0.65585

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X2H7R	A0->Y (RF)	0.03813	0.17389	0.57301
	A1->Y (RF)	0.03796	0.17996	0.61178
	A2->Y (RF)	0.03416	0.17404	0.60412
	B0->Y (RF)	0.02800	0.16002	0.56048
	B1->Y (RF)	0.02606	0.16426	0.59851
	B2->Y (RF)	0.02294	0.15846	0.59044

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X2H7R	A0	0.00239	0.00245	0.00264
	A0	-0.00036	-0.00036	-0.00036
	A0	0.00034	0.00034	0.00034
	A0	-0.00011	-0.00007	0.00015
	A1	0.00225	0.00229	0.00247
	A1	-0.00037	-0.00036	-0.00033
	A1	0.00027	0.00028	0.00028
	A1	-0.00006	-0.00001	0.00022
	A2	0.00208	0.00213	0.00235
	A2	-0.00036	-0.00036	-0.00033
	A2	0.00015	0.00021	0.00029
	A2	-0.00008	-0.00001	0.00028
	B0	0.00166	0.00178	0.00220
	B0	-0.00014	-0.00013	0.00000
	B0	0.00034	0.00034	0.00034
	B0	-0.00016	-0.00007	0.00043
	B1	0.00149	0.00160	0.00202
	B1	-0.00014	-0.00013	0.00000
	B1	0.00027	0.00027	0.00028
	B1	-0.00012	-0.00002	0.00049
	B2	0.00134	0.00142	0.00189
	B2	-0.00014	-0.00013	0.00000
	B2	0.00020	0.00020	0.00021
	B2	-0.00012	-0.00001	0.00060

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X2H7R	A0	-0.00012	-0.00009	0.00010
	A0	0.00037	0.00038	0.00038
	A0	-0.00021	-0.00020	-0.00020
	A0	0.00236	0.00242	0.00261
	A1	-0.00012	-0.00008	0.00015
	A1	0.00037	0.00037	0.00039
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00211	0.00218	0.00241
	A2	-0.00012	-0.00006	0.00033
	A2	0.00035	0.00036	0.00039
	A2	-0.00007	-0.00007	-0.00006
	A2	0.00193	0.00202	0.00241
	B0	-0.00009	-0.00000	0.00030
	B0	0.00013	0.00014	0.00019
	B0	-0.00021	-0.00020	-0.00020
	B0	0.00186	0.00194	0.00220
	B1	-0.00006	-0.00000	0.00035
	B1	0.00000	0.00013	0.00015
	B1	-0.00014	-0.00014	-0.00014
	B1	0.00161	0.00169	0.00200
	B2	-0.00005	0.00004	0.00058
	B2	0.00013	0.00014	0.00015
	B2	-0.00007	-0.00007	-0.00006
	B2	0.00142	0.00152	0.00200

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7R	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00015	-0.00013	-0.00010
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00028	0.00028	0.00028
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00019	-0.00019	-0.00019
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00024	0.00025	0.00025
	(A1 * !A2 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B2 * Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * !B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B1 * B2 * Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * B1 * B2 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * B1 * B2 * !Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00026	0.00026	0.00026
	(!A1 * !A2 * !B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B1 * B2 * Y)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7R	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00015	0.00015	0.00016
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00019	0.00019	0.00019
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00025	-0.00024	-0.00022
	(A1 * !A2 * !B2 * Y)	0.00019	0.00019	0.00019
	(A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B2 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B2 * Y)	-0.00025	-0.00024	-0.00022
	(A1 * !A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(A1 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00025	-0.00024	-0.00022
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00019	0.00019	0.00019
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * B0 * B1 * B2 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * A2 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B2 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !A2 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B2 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !A2 * !B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00025	-0.00024	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7R	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00016	-0.00014	-0.00010
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00023	0.00023	0.00024
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * !B2 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B2 * Y)	0.00021	0.00021	0.00021
	(A0 * !A2 * !B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	0.00021	0.00021	0.00021
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B2 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B1 * B2 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7R	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00016	0.00016	0.00016
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00020	-0.00020	-0.00018
	(A0 * !A2 * !B2 * Y)	0.00020	0.00021	0.00022
	(A0 * !A2 * !B2 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B2 * Y)	-0.00020	-0.00019	-0.00017
	(A0 * !A2 * !B1 * B2 * Y)	0.00020	0.00021	0.00022
	(A0 * !A2 * !B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00020	-0.00019	-0.00017
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00020	0.00021	0.00022
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * A2 * !B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B2 * Y)	0.00020	0.00021	0.00021
	(!A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B1 * B2 * Y)	0.00020	0.00020	0.00021
	(!A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00020	0.00021	0.00021
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7R	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00016	-0.00013	-0.00010
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00027	0.00027	0.00028
	(!A1 * B0 * B1 * B2 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * B1 * B2 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B2 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B1 * B2 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * B2 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * B1 * B2 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B2 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B1 * B2 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7R	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00016	0.00016	0.00016
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * B1 * B2 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B2 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B1 * B2 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * B2 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00024	-0.00022	-0.00019
	(!A0 * A1 * !B2 * Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B1 * B2 * Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00028	0.00028	0.00029
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7R	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00034	0.00034	0.00035
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00032	0.00032	0.00033
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00033	0.00033	0.00033
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00032	0.00033	0.00033
	(!A2 * B1 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A2 * !B1 * B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A2 * !B1 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A2 * !B1 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A1 * A2 * B1 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A1 * A2 * !B1 * B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00021	0.00021	0.00022

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7R	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00035	-0.00034	-0.00034
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00033	-0.00031	-0.00030
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00033	-0.00032	-0.00031
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00033	-0.00032	-0.00031
	(!A2 * B1 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A2 * B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B1 * !B2 * Y)	-0.00021	-0.00020	-0.00018
	(!A2 * !B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * B2 * Y)	-0.00022	-0.00021	-0.00019
	(!A2 * !B1 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A2 * !B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * !B1 * !B2 * Y)	-0.00021	-0.00021	-0.00019
	(!A1 * A2 * B1 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00021	-0.00020	-0.00018
	(!A1 * A2 * !B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00022	-0.00021	-0.00019
	(!A1 * A2 * !B1 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B1 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7R	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00002	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00028	0.00028	0.00028
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00013	0.00014	0.00014
	(!A2 * B0 * !B2 * Y)	-0.00023	-0.00023	-0.00022
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A2 * !B0 * B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B0 * B2 * Y)	0.00005	0.00005	0.00005
	(!A2 * !B0 * B2 * Y)	0.00004	0.00003	0.00004
	(!A2 * !B0 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B0 * !B2 * Y)	0.00007	0.00007	0.00007
	(!A2 * !B0 * !B2 * Y)	0.00004	0.00003	0.00004
	(!A1 * A2 * B0 * !B2 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B0 * B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * !B0 * B2 * Y)	0.00004	0.00003	0.00004
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !B2 * Y)	0.00007	0.00007	0.00007
	(!A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00003	0.00004
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00023	-0.00023	-0.00022
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00004	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7R	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00030	-0.00029	-0.00029
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00028	-0.00027	-0.00026
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00028	-0.00027	-0.00025
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00014	-0.00014	-0.00013
	(!A2 * B0 * !B2 * Y)	0.00023	0.00023	0.00024
	(!A2 * B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B0 * !B2 * Y)	-0.00018	-0.00017	-0.00015
	(!A2 * !B0 * B2 * Y)	0.00023	0.00023	0.00023
	(!A2 * !B0 * B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B0 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A2 * !B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B0 * !B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A2 * !B0 * !B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * B0 * !B2 * Y)	0.00023	0.00023	0.00024
	(!A1 * A2 * B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00018	-0.00017	-0.00015
	(!A1 * A2 * !B0 * B2 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00023	0.00023	0.00023
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00004	-0.00003	-0.00003

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7R	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00032	0.00032	0.00032
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B1 * !Y)	0.00030	0.00030	0.00030
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00029	0.00029	0.00029
	(!A2 * !B1 * Y)	-0.00028	-0.00028	-0.00027
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B1 * Y)	0.00003	0.00004	0.00004
	(!A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	-0.00028	-0.00028	-0.00027
	(!A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00003	0.00004	0.00004
	(!A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * A2 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00003	0.00003	0.00003

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X2H7R	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00032	-0.00032	-0.00031
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B1 * !Y)	-0.00030	-0.00029	-0.00028
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00029	-0.00027	-0.00024
	(!A2 * !B1 * Y)	0.00028	0.00028	0.00028
	(!A2 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	0.00028	0.00028	0.00028
	(!A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	0.00028	0.00028	0.00028
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	0.00028	0.00028	0.00028
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003

AOI33X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	Y
0	x	x	0	x	x	1
0	x	x	1	0	x	1
0	x	x	1	1	0	1
x	x	x	1	1	1	0
1	0	x	0	x	x	1
1	0	x	1	0	x	1
1	0	x	1	1	0	1
1	1	0	0	x	x	1
1	1	0	1	0	x	1
1	1	0	1	1	0	1
1	1	1	x	x	x	0

Footprint

Cell Name	Area
AOI33X3H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**Y**
AOI33X3H7R	0.00150	0.00148	0.00160	0.00158	0.00158	0.00165	0.05813

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
AOI33X3H7R	0.00000	0.27841	0.80636

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X3H7R	A0->Y (FR)	0.05199	0.20854	0.65868
	A1->Y (FR)	0.04816	0.20334	0.65211
	A2->Y (FR)	0.04349	0.19763	0.64888
	B0->Y (FR)	0.04108	0.19851	0.66419
	B1->Y (FR)	0.03734	0.19331	0.65935
	B2->Y (FR)	0.03256	0.18719	0.65433

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X3H7R	A0->Y (RF)	0.04352	0.18235	0.58469
	A1->Y (RF)	0.04144	0.18663	0.62218
	A2->Y (RF)	0.03684	0.17986	0.61564
	B0->Y (RF)	0.03081	0.16532	0.56936
	B1->Y (RF)	0.02894	0.16894	0.60681
	B2->Y (RF)	0.02389	0.16198	0.60086

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X3H7R	A0	0.00465	0.00473	0.00497
	A0	-0.00056	-0.00054	-0.00050
	A0	0.00051	0.00052	0.00052
	A0	0.00014	0.00019	0.00044
	A1	0.00428	0.00438	0.00462
	A1	-0.00056	-0.00054	-0.00050
	A1	0.00041	0.00042	0.00050
	A1	0.00016	0.00024	0.00050
	A2	0.00391	0.00400	0.00429
	A2	-0.00057	-0.00054	-0.00050
	A2	0.00023	0.00031	0.00035
	A2	0.00007	0.00018	0.00056
	B0	0.00329	0.00345	0.00407
	B0	-0.00020	-0.00020	-0.00016
	B0	0.00051	0.00052	0.00052
	B0	-0.00017	-0.00003	0.00073
	B1	0.00297	0.00310	0.00372
	B1	-0.00020	-0.00020	-0.00015
	B1	0.00041	0.00042	0.00042
	B1	-0.00014	0.00001	0.00077
	B2	0.00261	0.00274	0.00344
	B2	-0.00020	-0.00020	-0.00016
	B2	0.00025	0.00031	0.00037
	B2	-0.00019	-0.00001	0.00093

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X3H7R	A0	-0.00020	-0.00015	0.00008
	A0	0.00051	0.00054	0.00059
	A0	-0.00032	-0.00031	-0.00026
	A0	0.00435	0.00444	0.00467
	A1	-0.00020	-0.00013	0.00018
	A1	0.00051	0.00054	0.00058
	A1	-0.00023	-0.00021	-0.00015
	A1	0.00388	0.00398	0.00430
	A2	-0.00020	-0.00009	0.00049
	A2	0.00057	0.00057	0.00062
	A2	-0.00011	-0.00010	-0.00007
	A2	0.00339	0.00362	0.00422
	B0	-0.00013	-0.00004	0.00038
	B0	0.00020	0.00020	0.00021
	B0	-0.00031	-0.00031	-0.00027
	B0	0.00349	0.00357	0.00392
	B1	-0.00011	-0.00001	0.00050
	B1	0.00020	0.00020	0.00023
	B1	-0.00022	-0.00021	-0.00020
	B1	0.00305	0.00315	0.00359
	B2	-0.00014	0.00001	0.00085
	B2	0.00020	0.00020	0.00021
	B2	-0.00011	-0.00010	-0.00008
	B2	0.00264	0.00277	0.00351

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7R	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00025	-0.00021	-0.00016
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00051	0.00052	0.00052
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00002	0.00003	0.00003
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00044	0.00044	0.00044
	(A1 * !A2 * !B2 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B2 * Y)	0.00002	0.00003	0.00003
	(A1 * !A2 * !B2 * Y)	0.00044	0.00044	0.00045
	(A1 * !A2 * !B1 * B2 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B1 * B2 * Y)	0.00044	0.00044	0.00045
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00044	0.00044	0.00045
	(!A1 * B0 * B1 * B2 * !Y)	-0.00032	-0.00032	-0.00032
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * B2 * !Y)	0.00045	0.00045	0.00045
	(!A1 * A2 * !B2 * Y)	-0.00033	-0.00032	-0.00032
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B2 * Y)	0.00045	0.00045	0.00046
	(!A1 * A2 * !B1 * B2 * Y)	-0.00033	-0.00032	-0.00032
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * B2 * Y)	0.00045	0.00045	0.00046
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00033	-0.00032	-0.00032
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00045	0.00045	0.00046
	(!A1 * !A2 * !B2 * Y)	-0.00033	-0.00033	-0.00033
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !A2 * !B2 * Y)	0.00044	0.00044	0.00044
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00033	-0.00033	-0.00033
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !A2 * !B1 * B2 * Y)	0.00044	0.00044	0.00044
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00033	-0.00033	-0.00033
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00044	0.00044	0.00044

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7R	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00025	0.00025	0.00025
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00004
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00051	-0.00051	-0.00050
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00032	0.00032	0.00033
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00044	-0.00042	-0.00037
	(A1 * !A2 * !B2 * Y)	0.00033	0.00033	0.00034
	(A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * !B2 * Y)	-0.00044	-0.00041	-0.00036
	(A1 * !A2 * !B1 * B2 * Y)	0.00033	0.00033	0.00034
	(A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B1 * B2 * Y)	-0.00044	-0.00041	-0.00036
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00033	0.00033	0.00034
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00044	-0.00041	-0.00036
	(!A1 * B0 * B1 * B2 * !Y)	0.00032	0.00032	0.00033
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * B2 * !Y)	-0.00045	-0.00043	-0.00040
	(!A1 * A2 * !B2 * Y)	0.00033	0.00033	0.00033
	(!A1 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B2 * Y)	-0.00044	-0.00042	-0.00039
	(!A1 * A2 * !B1 * B2 * Y)	0.00033	0.00033	0.00033
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * B2 * Y)	-0.00044	-0.00042	-0.00039
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00033	0.00033	0.00033
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00045	-0.00042	-0.00039
	(!A1 * !A2 * !B2 * Y)	0.00033	0.00033	0.00033
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !A2 * !B2 * Y)	-0.00044	-0.00042	-0.00039
	(!A1 * !A2 * !B1 * B2 * Y)	0.00033	0.00033	0.00033
	(!A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00044	-0.00042	-0.00040
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00033	0.00033	0.00033
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00044	-0.00042	-0.00039

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7R	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00026	-0.00021	-0.00016
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00002
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00048	0.00049	0.00050
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00034	-0.00033	-0.00033
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00002	0.00003	0.00003
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00042	0.00042	0.00043
	(A0 * !A2 * !B2 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B2 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B2 * Y)	0.00043	0.00043	0.00044
	(A0 * !A2 * !B1 * B2 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B1 * B2 * Y)	0.00043	0.00043	0.00044
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00043	0.00043	0.00044
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00033	-0.00033	-0.00033
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00041	0.00041	0.00042
	(!A0 * A2 * !B2 * Y)	-0.00036	-0.00036	-0.00035
	(!A0 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B2 * Y)	0.00007	0.00007	0.00007
	(!A0 * A2 * !B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B1 * B2 * Y)	-0.00036	-0.00036	-0.00035
	(!A0 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B1 * B2 * Y)	0.00007	0.00007	0.00007
	(!A0 * A2 * !B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00036	-0.00036	-0.00035
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00007	0.00007	0.00007
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00034	-0.00033	-0.00033
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !A2 * !B2 * Y)	-0.00036	-0.00036	-0.00036
	(!A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B2 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A2 * !B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00036	-0.00036	-0.00036
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B1 * B2 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A2 * !B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00036	-0.00036	-0.00036
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7R	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00025	0.00026	0.00026
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00048	-0.00047	-0.00047
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00033	0.00033	0.00034
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00043	-0.00041	-0.00039
	(A0 * !A2 * !B2 * Y)	0.00034	0.00035	0.00038
	(A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B2 * Y)	-0.00042	-0.00040	-0.00036
	(A0 * !A2 * !B1 * B2 * Y)	0.00034	0.00035	0.00038
	(A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B1 * B2 * Y)	-0.00042	-0.00040	-0.00036
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00034	0.00035	0.00038
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00042	-0.00040	-0.00036
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00033	0.00034	0.00034
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00041	-0.00040	-0.00037
	(!A0 * A2 * !B2 * Y)	0.00036	0.00036	0.00036
	(!A0 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * !B1 * B2 * Y)	0.00035	0.00036	0.00036
	(!A0 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B1 * B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00035	0.00036	0.00036
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00033	0.00034	0.00034
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A2 * !B2 * Y)	0.00037	0.00037	0.00037
	(!A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B2 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A2 * !B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B1 * B2 * Y)	0.00036	0.00037	0.00037
	(!A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00036	0.00037	0.00037
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7R	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00026	-0.00022	-0.00016
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00050	0.00051	0.00052
	(!A1 * B0 * B1 * B2 * !Y)	-0.00034	-0.00034	-0.00033
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00002	0.00002	0.00003
	(!A1 * B0 * B1 * B2 * !Y)	0.00044	0.00045	0.00045
	(!A1 * !B2 * Y)	-0.00049	-0.00049	-0.00048
	(!A1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B2 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B1 * B2 * Y)	-0.00049	-0.00049	-0.00048
	(!A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * B1 * B2 * Y)	-0.00049	-0.00049	-0.00048
	(!A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * B1 * B2 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00034	-0.00034	-0.00033
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00003	0.00004
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00042	0.00043	0.00044
	(!A0 * A1 * !B2 * Y)	-0.00049	-0.00049	-0.00048
	(!A0 * A1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B2 * Y)	0.00012	0.00013	0.00013
	(!A0 * A1 * !B1 * B2 * Y)	-0.00049	-0.00049	-0.00048
	(!A0 * A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B1 * B2 * Y)	0.00012	0.00013	0.00013
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00049	-0.00049	-0.00048
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00012	0.00013	0.00013

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7R	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00026	0.00026	0.00026
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00050	-0.00050	-0.00049
	(!A1 * B0 * B1 * B2 * !Y)	0.00033	0.00034	0.00034
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * B1 * B2 * !Y)	-0.00045	-0.00043	-0.00040
	(!A1 * !B2 * Y)	0.00048	0.00049	0.00049
	(!A1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B1 * B2 * Y)	0.00048	0.00049	0.00049
	(!A1 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * B1 * B2 * Y)	0.00048	0.00049	0.00049
	(!A1 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * B1 * B2 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00033	0.00034	0.00034
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00004	-0.00003	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00043	-0.00040	-0.00035
	(!A0 * A1 * !B2 * Y)	0.00048	0.00049	0.00049
	(!A0 * A1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A1 * !B1 * B2 * Y)	0.00048	0.00049	0.00049
	(!A0 * A1 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00048	0.00049	0.00049
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00012

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7R	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00062	0.00062	0.00062
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00056	0.00057	0.00057
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00002	0.00002	0.00003
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00058	0.00058	0.00058
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00003	0.00003	0.00003
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00057	0.00057	0.00058
	(!A2 * B1 * !B2 * Y)	-0.00039	-0.00039	-0.00039
	(!A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B1 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A2 * B1 * !B2 * Y)	0.00038	0.00039	0.00039
	(!A2 * !B1 * B2 * Y)	-0.00039	-0.00039	-0.00038
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00003
	(!A2 * !B1 * B2 * Y)	0.00039	0.00040	0.00041
	(!A2 * !B1 * !B2 * Y)	-0.00039	-0.00039	-0.00039
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A2 * !B1 * !B2 * Y)	0.00039	0.00039	0.00039
	(!A1 * A2 * B1 * !B2 * Y)	-0.00039	-0.00039	-0.00039
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * B1 * !B2 * Y)	0.00038	0.00039	0.00039
	(!A1 * A2 * !B1 * B2 * Y)	-0.00039	-0.00039	-0.00039
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B1 * B2 * Y)	0.00039	0.00040	0.00040
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00039	-0.00039	-0.00039
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * !B2 * Y)	0.00039	0.00039	0.00039
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00038	0.00039	0.00039
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00039	0.00040	0.00040
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00039	0.00039	0.00039

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7R	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00062	-0.00061	-0.00061
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00057	-0.00055	-0.00051
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00058	-0.00056	-0.00054
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00058	-0.00056	-0.00053
	(!A2 * B1 * !B2 * Y)	0.00039	0.00039	0.00040
	(!A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B1 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A2 * B1 * !B2 * Y)	-0.00038	-0.00036	-0.00032
	(!A2 * !B1 * B2 * Y)	0.00039	0.00039	0.00039
	(!A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	-0.00003	-0.00002	-0.00002
	(!A2 * !B1 * B2 * Y)	-0.00039	-0.00037	-0.00033
	(!A2 * !B1 * !B2 * Y)	0.00039	0.00039	0.00039
	(!A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * !B1 * !B2 * Y)	-0.00039	-0.00037	-0.00033
	(!A1 * A2 * B1 * !B2 * Y)	0.00039	0.00039	0.00040
	(!A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * B1 * !B2 * Y)	-0.00038	-0.00036	-0.00032
	(!A1 * A2 * !B1 * B2 * Y)	0.00039	0.00039	0.00039
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B1 * B2 * Y)	-0.00039	-0.00037	-0.00033
	(!A1 * A2 * !B1 * !B2 * Y)	0.00039	0.00039	0.00039
	(!A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00039	-0.00037	-0.00033
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00039	0.00039	0.00040
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00038	-0.00036	-0.00032
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00039	0.00039	0.00039
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00039	-0.00037	-0.00033
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00039	0.00039	0.00039
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00039	-0.00037	-0.00033

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7R	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00005	-0.00004	-0.00004
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00000	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00063	0.00064	0.00064
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00060	0.00060	0.00060
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00002	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00058	0.00059	0.00059
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00010	0.00010	0.00010
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00034	0.00034	0.00034
	(!A2 * B0 * !B2 * Y)	-0.00039	-0.00039	-0.00039
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B0 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A2 * B0 * !B2 * Y)	0.00041	0.00041	0.00041
	(!A2 * !B0 * B2 * Y)	-0.00042	-0.00041	-0.00041
	(!A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * B2 * Y)	0.00006	0.00007	0.00007
	(!A2 * !B0 * B2 * Y)	0.00011	0.00011	0.00011
	(!A2 * !B0 * !B2 * Y)	-0.00042	-0.00042	-0.00041
	(!A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * !B2 * Y)	0.00010	0.00010	0.00011
	(!A2 * !B0 * !B2 * Y)	0.00011	0.00011	0.00011
	(!A1 * A2 * B0 * !B2 * Y)	-0.00039	-0.00039	-0.00039
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * !B2 * Y)	0.00041	0.00041	0.00041
	(!A1 * A2 * !B0 * B2 * Y)	-0.00042	-0.00041	-0.00041
	(!A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B2 * Y)	0.00007	0.00007	0.00007
	(!A1 * A2 * !B0 * B2 * Y)	0.00010	0.00011	0.00011
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00042	-0.00042	-0.00041
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B2 * Y)	0.00010	0.00010	0.00010
	(!A1 * A2 * !B0 * !B2 * Y)	0.00011	0.00011	0.00011
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00041	0.00041	0.00041
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00042	-0.00041	-0.00041
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00007	0.00007	0.00007
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00010	0.00011	0.00011
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00042	-0.00042	-0.00041
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00011	0.00011	0.00011

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7R	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00064	-0.00063	-0.00062
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00060	-0.00059	-0.00056
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00059	-0.00057	-0.00054
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00004	0.00004	0.00004
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00034	-0.00034	-0.00034
	(!A2 * B0 * !B2 * Y)	0.00039	0.00040	0.00043
	(!A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * B0 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * B0 * !B2 * Y)	-0.00040	-0.00038	-0.00033
	(!A2 * !B0 * B2 * Y)	0.00041	0.00042	0.00042
	(!A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * B2 * Y)	-0.00007	-0.00007	-0.00006
	(!A2 * !B0 * B2 * Y)	-0.00011	-0.00011	-0.00010
	(!A2 * !B0 * !B2 * Y)	0.00042	0.00042	0.00043
	(!A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * !B2 * Y)	-0.00011	-0.00010	-0.00010
	(!A2 * !B0 * !B2 * Y)	-0.00011	-0.00011	-0.00010
	(!A1 * A2 * B0 * !B2 * Y)	0.00039	0.00040	0.00043
	(!A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * !B2 * Y)	-0.00040	-0.00038	-0.00033
	(!A1 * A2 * !B0 * B2 * Y)	0.00041	0.00042	0.00042
	(!A1 * A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * A2 * !B0 * B2 * Y)	-0.00011	-0.00011	-0.00010
	(!A1 * A2 * !B0 * !B2 * Y)	0.00042	0.00042	0.00043
	(!A1 * A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00040	0.00040	0.00043
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00040	-0.00038	-0.00033
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00041	0.00042	0.00042
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00011	-0.00011	-0.00010
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00042	0.00042	0.00043
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00011	-0.00011	-0.00011

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7R	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00063	0.00064	0.00064
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !B1 * !Y)	0.00002	0.00003	0.00004
	(A0 * A1 * A2 * !B1 * !Y)	0.00059	0.00060	0.00060
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00001	0.00003	0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00059	0.00059	0.00059
	(!A2 * !B1 * Y)	-0.00056	-0.00055	-0.00055
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	0.00005	0.00005	0.00006
	(!A2 * !B1 * Y)	0.00010	0.00010	0.00010
	(!A2 * !B0 * B1 * Y)	-0.00056	-0.00055	-0.00055
	(!A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * B1 * Y)	0.00005	0.00005	0.00006
	(!A2 * !B0 * B1 * Y)	0.00008	0.00009	0.00009
	(!A1 * A2 * !B1 * Y)	-0.00056	-0.00055	-0.00055
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * !B1 * Y)	0.00010	0.00010	0.00010
	(!A1 * A2 * !B0 * B1 * Y)	-0.00056	-0.00055	-0.00055
	(!A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A1 * A2 * !B0 * B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * A2 * !B1 * Y)	-0.00056	-0.00055	-0.00055
	(!A0 * A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * A2 * !B1 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00056	-0.00055	-0.00055
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X3H7R	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00005	0.00005	0.00006
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00064	-0.00063	-0.00063
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !B1 * !Y)	-0.00004	-0.00003	-0.00002
	(A0 * A1 * A2 * !B1 * !Y)	-0.00060	-0.00058	-0.00056
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00003	-0.00002	-0.00001
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00059	-0.00055	-0.00050
	(!A2 * !B1 * Y)	0.00055	0.00055	0.00056
	(!A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * Y)	-0.00005	-0.00004	-0.00004
	(!A2 * !B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A2 * !B0 * B1 * Y)	0.00055	0.00055	0.00056
	(!A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A2 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00004
	(!A2 * !B0 * B1 * Y)	-0.00009	-0.00009	-0.00008
	(!A1 * A2 * !B1 * Y)	0.00055	0.00055	0.00056
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * A2 * !B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * A2 * !B0 * B1 * Y)	0.00055	0.00055	0.00056
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * A2 * !B0 * B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * A1 * A2 * !B1 * Y)	0.00055	0.00055	0.00056
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * A2 * !B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00055	0.00055	0.00056
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00009	-0.00009	-0.00009

AOI33X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

AOI

Y=! (A0 & A1 & A2)+ (B0 & B1 & B2)

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	Y
0	x	x	0	x	x	1
0	x	x	1	0	x	1
0	x	x	1	1	0	1
x	x	x	1	1	1	0
1	0	x	0	x	x	1
1	0	x	1	0	x	1
1	0	x	1	1	0	1
1	1	0	0	x	x	1
1	1	0	1	0	x	1
1	1	0	1	1	0	1
1	1	1	x	x	x	0

Footprint

Cell Name	Area
AOI33X4H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	B0	B1	B2	Y
AOI33X4H7R	0.00174	0.00172	0.00183	0.00182	0.00183	0.00189	0.07442

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
AOI33X4H7R	0.00000	0.35414	1.02559

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X4H7R	A0->Y (FR)	0.04730	0.20420	0.65788
	A1->Y (FR)	0.04371	0.19927	0.65224
	A2->Y (FR)	0.03923	0.19375	0.64813
	B0->Y (FR)	0.03726	0.19503	0.66463
	B1->Y (FR)	0.03384	0.19012	0.66011
	B2->Y (FR)	0.02924	0.18422	0.65517

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
AOI33X4H7R	A0->Y (RF)	0.04054	0.17704	0.57716
	A1->Y (RF)	0.03729	0.18096	0.61465
	A2->Y (RF)	0.03300	0.17451	0.60872
	B0->Y (RF)	0.02725	0.16029	0.56319
	B1->Y (RF)	0.02557	0.16402	0.60023
	B2->Y (RF)	0.02094	0.15722	0.59475

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X4H7R	A0	0.00534	0.00552	0.00584
	A0	-0.00073	-0.00071	-0.00067
	A0	0.00067	0.00068	0.00068
	A0	0.00001	0.00009	0.00042
	A1	0.00498	0.00510	0.00542
	A1	-0.00075	-0.00072	-0.00067
	A1	0.00054	0.00055	0.00061
	A1	-0.00001	0.00008	0.00049
	A2	0.00454	0.00464	0.00506
	A2	-0.00072	-0.00071	-0.00066
	A2	0.00033	0.00040	0.00047
	A2	-0.00006	0.00007	0.00063
	B0	0.00384	0.00403	0.00485
	B0	-0.00027	-0.00027	-0.00019
	B0	0.00067	0.00067	0.00068
	B0	-0.00023	-0.00005	0.00092
	B1	0.00343	0.00363	0.00444
	B1	-0.00027	-0.00027	-0.00022
	B1	0.00053	0.00054	0.00055
	B1	-0.00020	0.00001	0.00099
	B2	0.00303	0.00319	0.00413
	B2	-0.00027	-0.00027	-0.00021
	B2	0.00032	0.00040	0.00048
	B2	-0.00025	-0.00001	0.00123

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
AOI33X4H7R	A0	-0.00026	-0.00018	0.00013
	A0	0.00073	0.00074	0.00078
	A0	-0.00041	-0.00040	-0.00001
	A0	0.00521	0.00531	0.00563
	A1	-0.00025	-0.00017	0.00025
	A1	0.00075	0.00076	0.00076
	A1	-0.00030	-0.00026	0.00013
	A1	0.00463	0.00476	0.00519
	A2	-0.00025	-0.00011	0.00065
	A2	0.00070	0.00072	0.00077
	A2	-0.00014	-0.00013	-0.00009
	A2	0.00408	0.00433	0.00511
	B0	-0.00020	-0.00008	0.00050
	B0	0.00026	0.00027	0.00028
	B0	-0.00043	-0.00040	-0.00036
	B0	0.00408	0.00419	0.00468
	B1	-0.00019	-0.00006	0.00064
	B1	0.00026	0.00027	0.00029
	B1	-0.00029	-0.00027	-0.00023
	B1	0.00351	0.00368	0.00428
	B2	-0.00021	-0.00002	0.00110
	B2	0.00026	0.00027	0.00031
	B2	-0.00014	-0.00013	-0.00006
	B2	0.00300	0.00322	0.00421

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7R	**(A1 * A2 * B0 * B1 * B2 * !Y)**	-0.00032	-0.00027	-0.00020
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00003
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00056	0.00057	0.00058
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00040	-0.00040	-0.00040
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00004
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00048	0.00049	0.00049
	(A1 * !A2 * !B2 * Y)	-0.00040	-0.00040	-0.00040
	(A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B2 * Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B2 * Y)	0.00049	0.00049	0.00050
	(A1 * !A2 * !B1 * B2 * Y)	-0.00040	-0.00040	-0.00040
	(A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B1 * B2 * Y)	0.00049	0.00049	0.00049
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00040	-0.00040	-0.00040
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00048	0.00049	0.00049
	(!A1 * B0 * B1 * B2 * !Y)	-0.00040	-0.00040	-0.00040
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00004
	(!A1 * B0 * B1 * B2 * !Y)	0.00049	0.00050	0.00050
	(!A1 * A2 * !B2 * Y)	-0.00040	-0.00040	-0.00040
	(!A1 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B2 * Y)	0.00050	0.00051	0.00051
	(!A1 * A2 * !B1 * B2 * Y)	-0.00040	-0.00040	-0.00040
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B1 * B2 * Y)	0.00050	0.00051	0.00051
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00040	-0.00040	-0.00040
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00050	0.00051	0.00051
	(!A1 * !A2 * !B2 * Y)	-0.00041	-0.00040	-0.00040
	(!A1 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A1 * !A2 * !B2 * Y)	0.00049	0.00049	0.00049
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00041	-0.00040	-0.00040
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	0.00003	0.00003	0.00004
	(!A1 * !A2 * !B1 * B2 * Y)	0.00049	0.00049	0.00050
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00041	-0.00040	-0.00040
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00003	0.00003	0.00004
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00049	0.00049	0.00050

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7R	**(A1 * A2 * B0 * B1 * B2 * !Y)**	0.00031	0.00032	0.00032
	(A1 * A2 * B0 * B1 * B2 * !Y)	0.00004	0.00005	0.00005
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * B1 * B2 * !Y)	-0.00056	-0.00056	-0.00056
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00040	0.00040	0.00040
	(A1 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * !A2 * B0 * B1 * B2 * !Y)	-0.00049	-0.00046	-0.00041
	(A1 * !A2 * !B2 * Y)	0.00041	0.00041	0.00041
	(A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B2 * Y)	-0.00049	-0.00046	-0.00040
	(A1 * !A2 * !B1 * B2 * Y)	0.00041	0.00041	0.00041
	(A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B1 * B2 * Y)	-0.00049	-0.00046	-0.00040
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00041	0.00041	0.00041
	(A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00049	-0.00046	-0.00040
	(!A1 * B0 * B1 * B2 * !Y)	0.00040	0.00040	0.00040
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * B0 * B1 * B2 * !Y)	-0.00050	-0.00048	-0.00045
	(!A1 * A2 * !B2 * Y)	0.00041	0.00041	0.00041
	(!A1 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B2 * Y)	-0.00050	-0.00047	-0.00043
	(!A1 * A2 * !B1 * B2 * Y)	0.00041	0.00041	0.00041
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B1 * B2 * Y)	-0.00050	-0.00047	-0.00043
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00041	0.00041	0.00041
	(!A1 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * B2 * Y)	-0.00049	-0.00047	-0.00043
	(!A1 * !A2 * !B2 * Y)	0.00040	0.00041	0.00041
	(!A1 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !A2 * !B2 * Y)	-0.00049	-0.00047	-0.00044
	(!A1 * !A2 * !B1 * B2 * Y)	0.00040	0.00041	0.00041
	(!A1 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !A2 * !B1 * B2 * Y)	-0.00049	-0.00047	-0.00044
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00040	0.00041	0.00041
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !A2 * !B0 * B1 * B2 * Y)	-0.00049	-0.00047	-0.00044

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7R	**(A0 * A2 * B0 * B1 * B2 * !Y)**	-0.00032	-0.00027	-0.00021
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00000	0.00001	0.00002
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00053	0.00054	0.00055
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00041	-0.00041	-0.00041
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00004
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00047	0.00047	0.00047
	(A0 * !A2 * !B2 * Y)	-0.00042	-0.00041	-0.00041
	(A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B2 * Y)	0.00002	0.00002	0.00003
	(A0 * !A2 * !B2 * Y)	0.00049	0.00049	0.00049
	(A0 * !A2 * !B1 * B2 * Y)	-0.00042	-0.00041	-0.00041
	(A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B1 * B2 * Y)	0.00002	0.00002	0.00003
	(A0 * !A2 * !B1 * B2 * Y)	0.00049	0.00049	0.00049
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00042	-0.00041	-0.00041
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00002	0.00002	0.00003
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00049	0.00049	0.00049
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00041	-0.00041	-0.00041
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00046	0.00046	0.00046
	(!A0 * A2 * !B2 * Y)	-0.00043	-0.00043	-0.00043
	(!A0 * A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B2 * Y)	0.00009	0.00010	0.00010
	(!A0 * A2 * !B2 * Y)	0.00012	0.00012	0.00013
	(!A0 * A2 * !B1 * B2 * Y)	-0.00043	-0.00043	-0.00043
	(!A0 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B1 * B2 * Y)	0.00009	0.00010	0.00010
	(!A0 * A2 * !B1 * B2 * Y)	0.00012	0.00012	0.00013
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00043	-0.00043	-0.00043
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00009	0.00010	0.00010
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00012	0.00012	0.00013
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00041	-0.00041	-0.00041
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * !B2 * Y)	-0.00044	-0.00044	-0.00043
	(!A0 * !A2 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00044	-0.00044	-0.00043
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00044	-0.00044	-0.00043
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00013	0.00013	0.00013

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7R	**(A0 * A2 * B0 * B1 * B2 * !Y)**	0.00032	0.00032	0.00033
	(A0 * A2 * B0 * B1 * B2 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00002	-0.00001	0.00000
	(A0 * A2 * B0 * B1 * B2 * !Y)	-0.00053	-0.00053	-0.00052
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00041	0.00041	0.00042
	(A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00047	-0.00046	-0.00043
	(A0 * !A2 * !B2 * Y)	0.00042	0.00043	0.00047
	(A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B2 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A2 * !B2 * Y)	-0.00047	-0.00045	-0.00040
	(A0 * !A2 * !B1 * B2 * Y)	0.00042	0.00043	0.00047
	(A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B1 * B2 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A2 * !B1 * B2 * Y)	-0.00047	-0.00045	-0.00040
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00042	0.00043	0.00047
	(A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00047	-0.00045	-0.00040
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00041	0.00041	0.00041
	(!A0 * A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * B0 * B1 * B2 * !Y)	-0.00046	-0.00044	-0.00041
	(!A0 * A2 * !B2 * Y)	0.00043	0.00044	0.00044
	(!A0 * A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B2 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * A2 * !B2 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A2 * !B1 * B2 * Y)	0.00043	0.00044	0.00044
	(!A0 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B1 * B2 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * A2 * !B1 * B2 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00043	0.00044	0.00044
	(!A0 * A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * A2 * !B0 * B1 * B2 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00041	0.00041	0.00042
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * B0 * B1 * B2 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B2 * Y)	0.00044	0.00045	0.00045
	(!A0 * !A2 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B1 * B2 * Y)	0.00044	0.00045	0.00045
	(!A0 * !A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00044	0.00045	0.00045
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7R	**(A0 * A1 * B0 * B1 * B2 * !Y)**	-0.00033	-0.00027	-0.00021
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00055	0.00056	0.00057
	(!A1 * B0 * B1 * B2 * !Y)	-0.00041	-0.00041	-0.00041
	(!A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * B1 * B2 * !Y)	0.00002	0.00003	0.00003
	(!A1 * B0 * B1 * B2 * !Y)	0.00048	0.00049	0.00050
	(!A1 * !B2 * Y)	-0.00058	-0.00057	-0.00057
	(!A1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B2 * Y)	0.00006	0.00006	0.00007
	(!A1 * !B2 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B1 * B2 * Y)	-0.00058	-0.00057	-0.00057
	(!A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * B1 * B2 * Y)	-0.00058	-0.00057	-0.00057
	(!A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00007
	(!A1 * !B0 * B1 * B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00042	-0.00041	-0.00041
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00003	0.00004
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00047	0.00048	0.00048
	(!A0 * A1 * !B2 * Y)	-0.00058	-0.00057	-0.00057
	(!A0 * A1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B2 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * !B1 * B2 * Y)	-0.00058	-0.00057	-0.00057
	(!A0 * A1 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B1 * B2 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00058	-0.00057	-0.00057
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00012	0.00012	0.00012

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7R	**(A0 * A1 * B0 * B1 * B2 * !Y)**	0.00032	0.00033	0.00033
	(A0 * A1 * B0 * B1 * B2 * !Y)	0.00004	0.00005	0.00005
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * B1 * B2 * !Y)	-0.00055	-0.00055	-0.00054
	(!A1 * B0 * B1 * B2 * !Y)	0.00041	0.00041	0.00042
	(!A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * B1 * B2 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * B1 * B2 * !Y)	-0.00049	-0.00047	-0.00044
	(!A1 * !B2 * Y)	0.00057	0.00057	0.00058
	(!A1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B1 * B2 * Y)	0.00057	0.00057	0.00058
	(!A1 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * B1 * B2 * Y)	0.00057	0.00057	0.00058
	(!A1 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * B1 * B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00041	0.00041	0.00042
	(!A0 * A1 * B0 * B1 * B2 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00004	-0.00003	-0.00001
	(!A0 * A1 * B0 * B1 * B2 * !Y)	-0.00048	-0.00044	-0.00038
	(!A0 * A1 * !B2 * Y)	0.00057	0.00057	0.00058
	(!A0 * A1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B2 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * !B1 * B2 * Y)	0.00057	0.00057	0.00058
	(!A0 * A1 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B1 * B2 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00057	0.00057	0.00058
	(!A0 * A1 * !B0 * B1 * B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * !B0 * B1 * B2 * Y)	-0.00012	-0.00012	-0.00012

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7R	**(A0 * A1 * A2 * B1 * B2 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00069	0.00069	0.00069
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00003	0.00004	0.00004
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00062	0.00063	0.00063
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00003	0.00004	0.00005
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00063	0.00064	0.00064
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00063	0.00064	0.00064
	(!A2 * B1 * !B2 * Y)	-0.00047	-0.00047	-0.00046
	(!A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A2 * B1 * !B2 * Y)	0.00043	0.00044	0.00044
	(!A2 * !B1 * B2 * Y)	-0.00047	-0.00047	-0.00046
	(!A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A2 * !B1 * B2 * Y)	0.00045	0.00045	0.00045
	(!A2 * !B1 * !B2 * Y)	-0.00047	-0.00047	-0.00047
	(!A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A2 * !B1 * !B2 * Y)	0.00043	0.00044	0.00044
	(!A1 * A2 * B1 * !B2 * Y)	-0.00047	-0.00047	-0.00046
	(!A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * B1 * !B2 * Y)	0.00043	0.00044	0.00044
	(!A1 * A2 * !B1 * B2 * Y)	-0.00047	-0.00047	-0.00046
	(!A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A1 * A2 * !B1 * B2 * Y)	0.00045	0.00045	0.00045
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00047	-0.00047	-0.00047
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A1 * A2 * !B1 * !B2 * Y)	0.00043	0.00044	0.00044
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00047	-0.00047	-0.00046
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00043	0.00044	0.00044
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00047	-0.00047	-0.00046
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00045	0.00045	0.00045
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00047	-0.00047	-0.00046
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00043	0.00043	0.00044

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7R	**(A0 * A1 * A2 * B1 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * B2 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * A2 * B1 * B2 * !Y)	-0.00069	-0.00068	-0.00068
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B1 * !B2 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * A2 * B1 * !B2 * !Y)	-0.00063	-0.00060	-0.00056
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * B2 * !Y)	0.00006	0.00006	0.00007
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * B2 * !Y)	-0.00064	-0.00062	-0.00060
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !B2 * !Y)	-0.00064	-0.00062	-0.00059
	(!A2 * B1 * !B2 * Y)	0.00047	0.00047	0.00048
	(!A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A2 * B1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A2 * B1 * !B2 * Y)	-0.00043	-0.00040	-0.00035
	(!A2 * !B1 * B2 * Y)	0.00047	0.00047	0.00047
	(!A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A2 * !B1 * B2 * Y)	-0.00044	-0.00041	-0.00037
	(!A2 * !B1 * !B2 * Y)	0.00047	0.00047	0.00047
	(!A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B1 * !B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A2 * !B1 * !B2 * Y)	-0.00044	-0.00041	-0.00037
	(!A1 * A2 * B1 * !B2 * Y)	0.00047	0.00047	0.00048
	(!A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * B1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * B1 * !B2 * Y)	-0.00043	-0.00040	-0.00035
	(!A1 * A2 * !B1 * B2 * Y)	0.00047	0.00047	0.00047
	(!A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * A2 * !B1 * B2 * Y)	-0.00044	-0.00041	-0.00037
	(!A1 * A2 * !B1 * !B2 * Y)	0.00047	0.00047	0.00047
	(!A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * !B1 * !B2 * Y)	-0.00044	-0.00041	-0.00037
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00047	0.00047	0.00048
	(!A0 * A1 * A2 * B1 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * A2 * B1 * !B2 * Y)	-0.00043	-0.00040	-0.00035
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00047	0.00047	0.00047
	(!A0 * A1 * A2 * !B1 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * A2 * !B1 * B2 * Y)	-0.00044	-0.00041	-0.00037
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00047	0.00047	0.00047
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * A2 * !B1 * !B2 * Y)	-0.00044	-0.00041	-0.00037

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7R	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00001	0.00001	0.00002
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00069	0.00071	0.00071
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00066	0.00067	0.00067
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00065	0.00065	0.00066
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00013	0.00014	0.00014
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00034	0.00034	0.00035
	(!A2 * B0 * !B2 * Y)	-0.00047	-0.00047	-0.00047
	(!A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * B0 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A2 * B0 * !B2 * Y)	0.00045	0.00046	0.00046
	(!A2 * !B0 * B2 * Y)	-0.00050	-0.00050	-0.00049
	(!A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * B2 * Y)	0.00009	0.00010	0.00010
	(!A2 * !B0 * B2 * Y)	0.00009	0.00009	0.00009
	(!A2 * !B0 * !B2 * Y)	-0.00050	-0.00050	-0.00050
	(!A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * !B2 * Y)	0.00013	0.00013	0.00013
	(!A2 * !B0 * !B2 * Y)	0.00009	0.00010	0.00010
	(!A1 * A2 * B0 * !B2 * Y)	-0.00047	-0.00047	-0.00047
	(!A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * !B2 * Y)	0.00045	0.00046	0.00046
	(!A1 * A2 * !B0 * B2 * Y)	-0.00050	-0.00050	-0.00049
	(!A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B2 * Y)	0.00009	0.00010	0.00010
	(!A1 * A2 * !B0 * B2 * Y)	0.00009	0.00009	0.00009
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00050	-0.00050	-0.00050
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B2 * Y)	0.00013	0.00013	0.00013
	(!A1 * A2 * !B0 * !B2 * Y)	0.00010	0.00010	0.00010
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00047	-0.00047	-0.00047
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00045	0.00046	0.00046
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00050	-0.00050	-0.00049
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00009	0.00010	0.00010
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00050	-0.00050	-0.00050
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7R	**(A0 * A1 * A2 * B0 * B2 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B2 * !Y)	0.00006	0.00007	0.00007
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * B2 * !Y)	-0.00071	-0.00070	-0.00069
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * !B2 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * A2 * B0 * !B2 * !Y)	-0.00067	-0.00065	-0.00061
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B2 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * B2 * !Y)	-0.00066	-0.00063	-0.00060
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	0.00006	0.00006	0.00006
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * A1 * A2 * !B0 * !B2 * !Y)	-0.00035	-0.00034	-0.00034
	(!A2 * B0 * !B2 * Y)	0.00048	0.00049	0.00052
	(!A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A2 * B0 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A2 * B0 * !B2 * Y)	-0.00044	-0.00042	-0.00038
	(!A2 * !B0 * B2 * Y)	0.00050	0.00050	0.00050
	(!A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A2 * !B0 * B2 * Y)	-0.00009	-0.00009	-0.00009
	(!A2 * !B0 * B2 * Y)	-0.00009	-0.00009	-0.00009
	(!A2 * !B0 * !B2 * Y)	0.00051	0.00051	0.00051
	(!A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A2 * !B0 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A2 * !B0 * !B2 * Y)	-0.00010	-0.00010	-0.00009
	(!A1 * A2 * B0 * !B2 * Y)	0.00048	0.00049	0.00052
	(!A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * !B2 * Y)	-0.00044	-0.00042	-0.00037
	(!A1 * A2 * !B0 * B2 * Y)	0.00050	0.00050	0.00050
	(!A1 * A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B2 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * A2 * !B0 * B2 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * A2 * !B0 * !B2 * Y)	0.00051	0.00051	0.00051
	(!A1 * A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * A2 * !B0 * !B2 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00048	0.00049	0.00052
	(!A0 * A1 * A2 * B0 * !B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * A2 * B0 * !B2 * Y)	-0.00044	-0.00042	-0.00037
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00050	0.00050	0.00050
	(!A0 * A1 * A2 * !B0 * B2 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * A1 * A2 * !B0 * B2 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00051	0.00051	0.00051
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * A2 * !B0 * !B2 * Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

AOI33X4H7R	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00070	0.00070	0.00071
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A1 * A2 * !B1 * !Y)	0.00003	0.00003	0.00004
	(A0 * A1 * A2 * !B1 * !Y)	0.00065	0.00066	0.00067
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00007	-0.00007	-0.00006
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00003	0.00004	0.00005
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00064	0.00064	0.00065
	(!A2 * !B1 * Y)	-0.00065	-0.00064	-0.00064
	(!A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B1 * Y)	0.00005	0.00006	0.00006
	(!A2 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A2 * !B0 * B1 * Y)	-0.00065	-0.00064	-0.00064
	(!A2 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A2 * !B0 * B1 * Y)	0.00008	0.00008	0.00008
	(!A1 * A2 * !B1 * Y)	-0.00065	-0.00064	-0.00064
	(!A1 * A2 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * A2 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A1 * A2 * !B0 * B1 * Y)	-0.00065	-0.00064	-0.00064
	(!A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A1 * A2 * !B0 * B1 * Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * A2 * !B1 * Y)	-0.00065	-0.00064	-0.00064
	(!A0 * A1 * A2 * !B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * A2 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00065	-0.00064	-0.00064
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

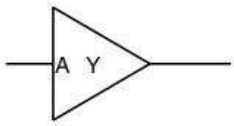
AOI33X4H7R	**(A0 * A1 * A2 * B0 * B1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * B0 * B1 * !Y)	0.00007	0.00007	0.00008
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * A2 * B0 * B1 * !Y)	-0.00070	-0.00070	-0.00069
	(A0 * A1 * A2 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * A2 * !B1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * A2 * !B1 * !Y)	-0.00066	-0.00064	-0.00061
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * A1 * A2 * !B0 * B1 * !Y)	0.00007	0.00007	0.00007
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00005	-0.00003	-0.00003
	(A0 * A1 * A2 * !B0 * B1 * !Y)	-0.00065	-0.00060	-0.00054
	(!A2 * !B1 * Y)	0.00064	0.00064	0.00065
	(!A2 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A2 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A2 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A2 * !B0 * B1 * Y)	0.00064	0.00064	0.00065
	(!A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A2 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A1 * A2 * !B1 * Y)	0.00064	0.00064	0.00065
	(!A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * A2 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * A2 * !B0 * B1 * Y)	0.00064	0.00064	0.00065
	(!A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * A2 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * A1 * A2 * !B1 * Y)	0.00064	0.00064	0.00065
	(!A0 * A1 * A2 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * A2 * !B1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1 * A2 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00064	0.00064	0.00065
	(!A0 * A1 * A2 * !B0 * B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * A2 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00008

BUFX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX0P5H7R	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX0P5H7R	0.00082	0.04259

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX0P5H7R	0.00000	0.18430	0.18430

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX0P5H7R	A->Y (RR)	0.02873	0.16244	0.49192

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX0P5H7R	A->Y (FF)	0.03079	0.14098	0.41316

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX0P5H7R	A	0.00034	0.00047	0.00088
	A	-0.00000	-0.00000	0.00000
	A	-0.00000	0.00000	0.00000
	A	0.00091	0.00104	0.00145

Internal switching power(pJ) to Y falling :

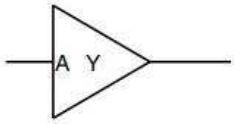
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX0P5H7R	A	0.00088	0.00102	0.00145
	A	-0.00000	0.00000	0.00000
	A	-0.00000	-0.00000	0.00000
	A	0.00030	0.00044	0.00089

BUFX0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX0P7H7R	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX0P7H7R	0.00084	0.04832

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX0P7H7R	0.00000	0.19662	0.20182

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX0P7H7R	A->Y (RR)	0.02805	0.16264	0.49384

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX0P7H7R	A->Y (FF)	0.03053	0.14144	0.41501

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX0P7H7R	A	0.00034	0.00047	0.00087
	A	-0.00000	-0.00000	0.00000
	A	0.00000	0.00000	0.00000
	A	0.00093	0.00106	0.00145

Internal switching power(pJ) to Y falling :

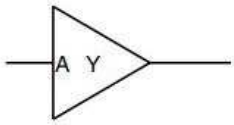
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX0P7H7R	A	0.00092	0.00106	0.00149
	A	0.00000	0.00000	0.00000
	A	-0.00000	-0.00000	-0.00000
	A	0.00033	0.00047	0.00092

BUFX10H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX10H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX10H7R	0.00212	0.38664

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX10H7R	0.00000	1.18841	1.42526

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX10H7R	A->Y (RR)	0.02421	0.16446	0.50386

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX10H7R	A->Y (FF)	0.02922	0.14743	0.43008

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX10H7R	A	0.00266	0.00324	0.00521
	A	-0.00013	-0.00012	-0.00007
	A	0.00009	0.00010	0.00010
	A	0.00394	0.00456	0.00651

Internal switching power(pJ) to Y falling :

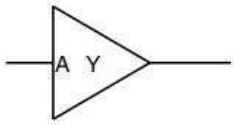
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX10H7R	A	0.00409	0.00470	0.00686
	A	0.00007	0.00012	0.00013
	A	-0.00010	-0.00009	-0.00009
	A	0.00279	0.00338	0.00556

BUFX12H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX12H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX12H7R	0.00260	0.46370

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX12H7R	0.00000	1.42415	1.70890

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX12H7R	A->Y (RR)	0.02407	0.16442	0.50462

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX12H7R	A->Y (FF)	0.02853	0.14564	0.42624

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX12H7R	A	0.00323	0.00396	0.00636
	A	-0.00015	-0.00014	-0.00005
	A	0.00011	0.00011	0.00011
	A	0.00480	0.00558	0.00797

Internal switching power(pJ) to Y falling :

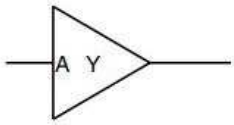
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX12H7R	A	0.00494	0.00569	0.00830
	A	0.00005	0.00014	0.00015
	A	-0.00011	-0.00011	-0.00010
	A	0.00334	0.00407	0.00670

BUFX16H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX16H7R	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX16H7R	0.00283	0.61886

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX16H7R	0.00000	1.80981	2.20573

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX16H7R	A->Y (RR)	0.02389	0.16525	0.50759

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX16H7R	A->Y (FF)	0.02830	0.14760	0.43210

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX16H7R	A	0.00405	0.00493	0.00800
	A	-0.00021	-0.00021	-0.00020
	A	0.00015	0.00016	0.00016
	A	0.00571	0.00662	0.00967

Internal switching power(pJ) to Y falling :

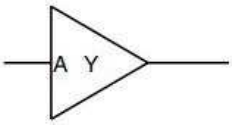
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX16H7R	A	0.00597	0.00686	0.01017
	A	0.00020	0.00021	0.00021
	A	-0.00016	-0.00016	-0.00015
	A	0.00430	0.00518	0.00850

BUFX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX1H7R	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX1H7R	0.00084	0.05761

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX1H7R	0.00000	0.21422	0.22604

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX1H7R	**A->Y (RR)**	0.02719	0.16252	0.49508

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX1H7R	**A->Y (FF)**	0.03019	0.14347	0.42239

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX1H7R	A	0.00040	0.00053	0.00095
	A	-0.00001	-0.00001	-0.00001
	A	0.00001	0.00001	0.00001
	A	0.00097	0.00110	0.00150

Internal switching power(pJ) to Y falling :

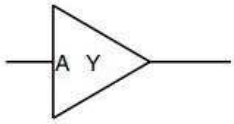
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX1H7R	A	0.00094	0.00108	0.00152
	A	0.00001	0.00001	0.00001
	A	-0.00001	-0.00001	-0.00000
	A	0.00036	0.00050	0.00096

BUFX1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX1P4H7R	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX1P4H7R	0.00088	0.06580

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX1P4H7R	0.00000	0.23101	0.25004

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX1P4H7R	A->Y (RR)	0.02808	0.16567	0.50204

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX1P4H7R	A->Y (FF)	0.03188	0.14714	0.42861

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX1P4H7R	A	0.00042	0.00056	0.00095
	A	-0.00001	-0.00001	-0.00001
	A	0.00001	0.00001	0.00002
	A	0.00102	0.00116	0.00156

Internal switching power(pJ) to Y falling :

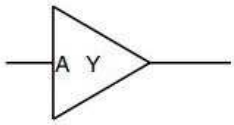
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX1P4H7R	A	0.00105	0.00120	0.00164
	A	0.00001	0.00001	0.00001
	A	-0.00001	-0.00001	-0.00001
	A	0.00045	0.00059	0.00104

BUFX20H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX20H7R	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX20H7R	0.00371	0.77232

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX20H7R	0.00000	2.39248	2.95249

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX20H7R	**A->Y (RR)**	0.02360	0.16441	0.50536

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX20H7R	**A->Y (FF)**	0.02747	0.14100	0.41120

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX20H7R	A	0.00524	0.00643	0.01043
	A	-0.00025	-0.00025	-0.00017
	A	0.00020	0.00021	0.00022
	A	0.00742	0.00864	0.01263

Internal switching power(pJ) to Y falling :

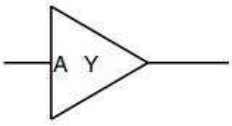
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX20H7R	A	0.00779	0.00897	0.01334
	A	0.00017	0.00025	0.00025
	A	-0.00022	-0.00021	-0.00020
	A	0.00560	0.00673	0.01114

BUFX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX2H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX2H7R	0.00087	0.07740

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX2H7R	0.00000	0.25668	0.28785

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX2H7R	**A->Y (RR)**	0.02850	0.16725	0.50535

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX2H7R	**A->Y (FF)**	0.03243	0.14750	0.42714

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX2H7R	A	0.00054	0.00068	0.00109
	A	-0.00002	-0.00002	-0.00002
	A	0.00001	0.00002	0.00002
	A	0.00113	0.00127	0.00168

Internal switching power(pJ) to Y falling :

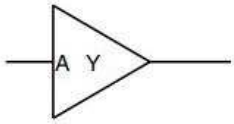
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX2H7R	A	0.00110	0.00126	0.00171
	A	0.00002	0.00002	0.00002
	A	-0.00002	-0.00002	-0.00001
	A	0.00051	0.00066	0.00113

BUFX2P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX2P5H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX2P5H7R	0.00085	0.10307

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX2P5H7R	0.00000	0.31370	0.37705

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX2P5H7R	A->Y (RR)	0.03149	0.17498	0.52164

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX2P5H7R	A->Y (FF)	0.03698	0.15751	0.44738

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX2P5H7R	A	0.00077	0.00092	0.00140
	A	-0.00003	-0.00003	-0.00002
	A	0.00002	0.00002	0.00003
	A	0.00133	0.00148	0.00195

Internal switching power(pJ) to Y falling :

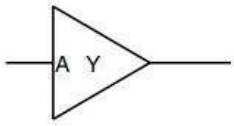
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX2P5H7R	A	0.00139	0.00155	0.00207
	A	0.00002	0.00003	0.00003
	A	-0.00002	-0.00002	-0.00002
	A	0.00083	0.00099	0.00152

BUFX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX3H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX3H7R	0.00088	0.11969

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX3H7R	0.00000	0.34882	0.42802

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX3H7R	**A->Y (RR)**	0.03244	0.17757	0.52715

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX3H7R	**A->Y (FF)**	0.03842	0.16016	0.45134

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX3H7R	A	0.00090	0.00106	0.00158
	A	-0.00004	-0.00004	-0.00004
	A	0.00003	0.00003	0.00003
	A	0.00145	0.00162	0.00213

Internal switching power(pJ) to Y falling :

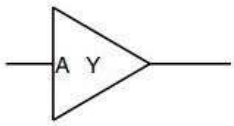
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX3H7R	A	0.00150	0.00167	0.00225
	A	0.00004	0.00004	0.00004
	A	-0.00003	-0.00003	-0.00003
	A	0.00094	0.00111	0.00169

BUFX3P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX3P5H7R	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX3P5H7R	0.00095	0.13764

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX3P5H7R	0.00000	0.41552	0.49797

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX3P5H7R	A->Y (RR)	0.02723	0.16865	0.51175

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX3P5H7R	A->Y (FF)	0.03149	0.14962	0.43369

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX3P5H7R	A	0.00091	0.00111	0.00175
	A	-0.00004	-0.00004	-0.00004
	A	0.00003	0.00003	0.00003
	A	0.00152	0.00172	0.00235

Internal switching power(pJ) to Y falling :

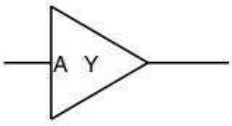
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX3P5H7R	A	0.00156	0.00177	0.00247
	A	0.00004	0.00004	0.00005
	A	-0.00003	-0.00003	-0.00003
	A	0.00096	0.00116	0.00187

BUFX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX4H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX4H7R	0.00102	0.15450

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX4H7R	0.00000	0.46918	0.55833

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX4H7R	**A->Y (RR)**	0.02566	0.16573	0.50635

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX4H7R	**A->Y (FF)**	0.03021	0.14773	0.43061

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX4H7R	A	0.00099	0.00122	0.00195
	A	-0.00005	-0.00005	-0.00002
	A	0.00004	0.00004	0.00004
	A	0.00164	0.00187	0.00259

Internal switching power(pJ) to Y falling :

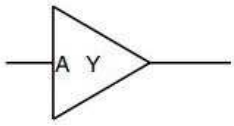
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX4H7R	A	0.00168	0.00191	0.00271
	A	0.00002	0.00005	0.00005
	A	-0.00004	-0.00004	-0.00003
	A	0.00103	0.00126	0.00206

BUFX5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX5H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX5H7R	0.00103	0.19855

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX5H7R	0.00000	0.57376	0.70617

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX5H7R	**A->Y (RR)**	0.02694	0.17042	0.51777

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX5H7R	**A->Y (FF)**	0.03203	0.15290	0.44155

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX5H7R	A	0.00131	0.00157	0.00246
	A	-0.00007	-0.00007	-0.00006
	A	0.00004	0.00005	0.00005
	A	0.00193	0.00220	0.00308

Internal switching power(pJ) to Y falling :

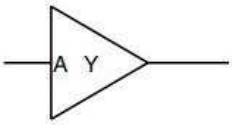
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX5H7R	A	0.00205	0.00232	0.00329
	A	0.00006	0.00007	0.00010
	A	-0.00005	-0.00005	-0.00004
	A	0.00144	0.00169	0.00267

BUFX6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX6H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX6H7R	0.00132	0.23187

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX6H7R	0.00000	0.69422	0.85264

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX6H7R	**A->Y (RR)**	0.02799	0.17073	0.51348

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX6H7R	**A->Y (FF)**	0.03499	0.15649	0.44576

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX6H7R	A	0.00166	0.00197	0.00304
	A	-0.00008	-0.00008	-0.00008
	A	0.00006	0.00006	0.00010
	A	0.00246	0.00278	0.00384

Internal switching power(pJ) to Y falling :

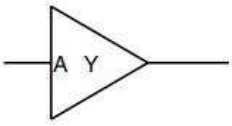
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX6H7R	A	0.00257	0.00290	0.00411
	A	0.00008	0.00008	0.00009
	A	-0.00006	-0.00006	-0.00006
	A	0.00177	0.00208	0.00331

BUFX7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX7H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX7H7R	0.00152	0.27541

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX7H7R	0.00000	0.81973	0.98711

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX7H7R	**A->Y (RR)**	0.02414	0.16489	0.50647

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX7H7R	**A->Y (FF)**	0.02848	0.14663	0.43033

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX7H7R	A	0.00169	0.00208	0.00348
	A	-0.00009	-0.00009	-0.00008
	A	0.00007	0.00007	0.00007
	A	0.00261	0.00303	0.00441

Internal switching power(pJ) to Y falling :

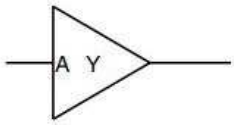
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX7H7R	A	0.00272	0.00313	0.00464
	A	0.00009	0.00009	0.00011
	A	-0.00007	-0.00007	-0.00006
	A	0.00179	0.00219	0.00371

BUFX8H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The BUF cell provides the logical buffer of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
BUFX8H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
BUFX8H7R	0.00169	0.30941

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
BUFX8H7R	0.00000	0.95609	1.15233

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX8H7R	**A->Y (RR)**	0.02459	0.16505	0.50562

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
BUFX8H7R	**A->Y (FF)**	0.02890	0.14517	0.42345

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX8H7R	A	0.00223	0.00272	0.00429
	A	-0.00010	-0.00010	-0.00009
	A	0.00007	0.00007	0.00008
	A	0.00326	0.00376	0.00533

Internal switching power(pJ) to Y falling :

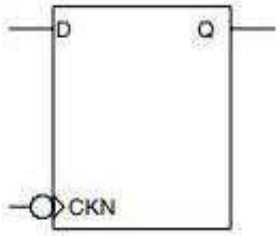
Cell Name	Input	Power(pJ)		
		min	avg	max
BUFX8H7R	A	0.00330	0.00380	0.00551
	A	0.00010	0.00010	0.00010
	A	-0.00008	-0.00007	-0.00007
	A	0.00226	0.00274	0.00448

DFFNQX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFNQ cell is a negative edge-triggered, static D-type flip-flop.



Truth Table

INPUT		OUTPUT
CKN	D	Q
F	0	0
F	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFNQX1H7R	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	D	Q
DFFNQX1H7R	0.00079	0.00061	0.05771

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNQX1H7R	0.00000	0.68480	0.77290

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX1H7R	CKN->Q (FR)	0.08965	0.25166	0.64082

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX1H7R	CKN->Q (FF)	0.12476	0.25919	0.55839

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNQX1H7R	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX1H7R	**hold**	**CKN (F)**	-0.05303	0.03030	0.12320
	setup	**CKN (F)**	-0.09779	0.00581	0.09629

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX1H7R	**hold**	**CKN (F)**	-0.10725	-0.02994	0.03227
	setup	**CKN (F)**	-0.02501	0.04113	0.13047

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX1H7R	CKN	0.00355	0.00372	0.00413
	CKN	0.00001	0.00004	0.00007
	CKN	-0.00005	-0.00004	-0.00000
	CKN	0.00305	0.00322	0.00363

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX1H7R	CKN	0.00353	0.00364	0.00400
	CKN	-0.00003	-0.00003	-0.00001
	CKN	0.00005	0.00005	0.00005
	CKN	0.00289	0.00300	0.00337

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX1H7R	0.00263	0.00274	0.00308
	-0.00000	-0.00000	0.00000
	0.00004	0.00005	0.00006
	0.00303	0.00313	0.00348

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX1H7R	0.00221	0.00232	0.00268
	0.00000	0.00000	0.00000
	-0.00000	0.00000	0.00000
	0.00164	0.00174	0.00210

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX1H7R	0.00092	0.00097	0.00117
	0.00004	0.00004	0.00005
	-0.00004	-0.00004	-0.00004
	0.00140	0.00146	0.00165

Passive power(pJ) for D falling :

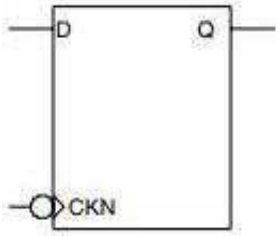
Cell Name	Power(pJ)		
	min	avg	max
DFFNQX1H7R	0.00144	0.00150	0.00172
	-0.00004	-0.00004	-0.00004
	0.00004	0.00004	0.00004
	0.00095	0.00101	0.00123

DFFNQX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFNQ cell is a negative edge-triggered, static D-type flip-flop.



Truth Table

INPUT		OUTPUT
CKN	D	Q
F	0	0
F	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFNQX2H7R	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	D	Q
DFFNQX2H7R	0.00079	0.00063	0.07756

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNQX2H7R	0.00000	0.74408	0.85819

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX2H7R	CKN->Q (FR)	0.08937	0.25303	0.64401

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX2H7R	CKN->Q (FF)	0.12499	0.26006	0.55639

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNQX2H7R	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX2H7R	**hold**	**CKN (F)**	-0.05018	0.03104	0.12368
	setup	**CKN (F)**	-0.09795	0.00414	0.09364

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX2H7R	**hold**	**CKN (F)**	-0.11025	-0.02979	0.03283
	setup	**CKN (F)**	-0.02437	0.04066	0.12728

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX2H7R	CKN	0.00361	0.00376	0.00422
	CKN	0.00000	0.00002	0.00005
	CKN	-0.00003	-0.00003	0.00002
	CKN	0.00308	0.00324	0.00365

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX2H7R	CKN	0.00361	0.00373	0.00409
	CKN	-0.00002	-0.00001	0.00000
	CKN	0.00004	0.00004	0.00004
	CKN	0.00300	0.00312	0.00350

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX2H7R	0.00266	0.00275	0.00310
	0.00000	0.00000	0.00000
	0.00005	0.00006	0.00006
	0.00303	0.00313	0.00349

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX2H7R	0.00219	0.00229	0.00265
	0.00000	0.00000	0.00000
	-0.00000	0.00000	0.00000
	0.00161	0.00171	0.00207

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX2H7R	0.00093	0.00098	0.00119
	0.00004	0.00004	0.00005
	-0.00004	-0.00004	-0.00004
	0.00143	0.00148	0.00169

Passive power(pJ) for D falling :

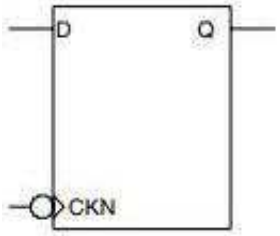
Cell Name	Power(pJ)		
	min	avg	max
DFFNQX2H7R	0.00147	0.00153	0.00175
	-0.00005	-0.00004	-0.00004
	0.00004	0.00004	0.00004
	0.00096	0.00102	0.00125

DFFNQX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFNQ cell is a negative edge-triggered, static D-type flip-flop.



Truth Table

INPUT		OUTPUT
CKN	D	Q
F	0	0
F	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFNQX3H7R	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	D	Q
DFFNQX3H7R	0.00079	0.00064	0.12088

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNQX3H7R	0.00000	0.84871	1.01512

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX3H7R	**CKN->Q (FR)**	0.09679	0.26427	0.65865

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNQX3H7R	**CKN->Q (FF)**	0.13500	0.27610	0.57795

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNQX3H7R	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX3H7R	**hold**	**CKN (F)**	-0.05155	0.03166	0.12286
	setup	**CKN (F)**	-0.10593	0.00125	0.09158

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNQX3H7R	**hold**	**CKN (F)**	-0.10572	-0.02896	0.03368
	setup	**CKN (F)**	-0.02647	0.03939	0.12494

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX3H7R	CKN	0.00402	0.00419	0.00466
	CKN	-0.00000	0.00000	0.00004
	CKN	-0.00002	-0.00001	0.00005
	CKN	0.00344	0.00363	0.00409

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNQX3H7R	CKN	0.00402	0.00414	0.00454
	CKN	-0.00000	0.00001	0.00001
	CKN	-0.00002	0.00002	0.00002
	CKN	0.00345	0.00358	0.00397

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX3H7R	0.00267	0.00278	0.00313
	-0.00000	-0.00000	0.00000
	0.00004	0.00005	0.00006
	0.00306	0.00316	0.00351

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX3H7R	0.00219	0.00229	0.00265
	0.00000	0.00000	0.00000
	-0.00000	-0.00000	0.00000
	0.00161	0.00171	0.00207

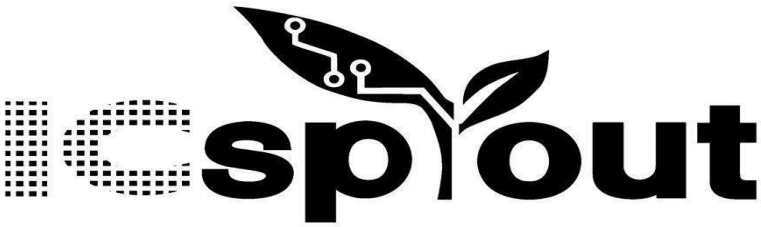
Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX3H7R	0.00093	0.00098	0.00120
	0.00004	0.00005	0.00005
	-0.00005	-0.00004	-0.00004
	0.00145	0.00151	0.00171

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNQX3H7R	0.00149	0.00155	0.00178
	-0.00005	-0.00005	-0.00004
	0.00004	0.00004	0.00005
	0.00096	0.00103	0.00126

DFFNRX0P5H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop with Async Clear
Q = ! RN ? 0 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	RN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNRX0P5H7R	8.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	RN	Q	QN
DFFNRX0P5H7R	0.00093	0.00071	0.00088	0.05949	0.05978

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNRX0P5H7R	0.00000	1.04739	1.29555

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX0P5H7R	CKN->Q (FR)	RN	0.14681	0.30115	0.67894

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX0P5H7R	CKN->Q (FF)	RN	0.10771	0.23825	0.54927
	RN->Q (FF)	(CKN * D)	0.08097	0.19982	0.48563
	RN->Q (FF)	(CKN * !D)	0.07993	0.19838	0.48325
	RN->Q (FF)	(!CKN * D)	0.08737	0.20667	0.49297
	RN->Q (FF)	(!CKN * !D)	0.08737	0.20667	0.49296

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX0P5H7R	CKN->QN (FR)	RN	0.08021	0.24287	0.62967
	RN->QN (FR)	(CKN * D)	0.05550	0.20255	0.56197
	RN->QN (FR)	(CKN * !D)	0.05474	0.20117	0.55933
	RN->QN (FR)	(!CKN * D)	0.05977	0.21097	0.57250
	RN->QN (FR)	(!CKN * !D)	0.05977	0.21097	0.57243

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX0P5H7R	CKN->QN (FF)	RN	0.11153	0.26345	0.58567

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNRX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX0P5H7R	**hold**	**CKN (F)**	-0.00611	0.04791	0.12753
	setup	**CKN (F)**	-0.10720	-0.00560	0.08233

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX0P5H7R	**hold**	**CKN (F)**	-0.08982	-0.02073	0.03427
	setup	**CKN (F)**	-0.01649	0.04799	0.14407

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX0P5H7R	**recovery**	**CKN (F)**	-0.12056	-0.02027	0.05162
	removal	**CKN (F)**	0.03543	0.08479	0.17324

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFNRX0P5H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX0P5H7R	CKN	RN	0.00237	0.00246	0.00273
	CKN	RN	-0.00003	-0.00001	0.00000
	CKN	RN	0.00001	0.00002	0.00002
	CKN	RN	0.00199	0.00208	0.00236

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX0P5H7R	CKN	RN	0.00209	0.00218	0.00243
	CKN	RN	0.00000	0.00001	0.00003
	CKN	RN	-0.00002	-0.00002	-0.00001
	CKN	RN	0.00180	0.00191	0.00215
	RN	(CKN * D)	0.00160	0.00169	0.00196
	RN	(CKN * D)	0.00002	0.00003	0.00003
	RN	(CKN * D)	-0.00005	-0.00003	-0.00003
	RN	(CKN * D)	0.00134	0.00144	0.00172
	RN	(CKN * !D)	0.00158	0.00168	0.00196
	RN	(CKN * !D)	0.00001	0.00002	0.00004
	RN	(CKN * !D)	-0.00005	-0.00003	-0.00001
	RN	(CKN * !D)	0.00132	0.00142	0.00171
	RN	(!CKN * D)	0.00214	0.00224	0.00250
	RN	(!CKN * D)	0.00000	0.00001	0.00002
	RN	(!CKN * D)	0.00000	0.00000	0.00003
	RN	(!CKN * D)	0.00183	0.00193	0.00219
	RN	(!CKN * !D)	0.00214	0.00224	0.00250
	RN	(!CKN * !D)	-0.00002	0.00001	0.00002
	RN	(!CKN * !D)	0.00000	0.00000	0.00003
	RN	(!CKN * !D)	0.00183	0.00193	0.00219

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX0P5H7R	CKN	RN	0.00208	0.00218	0.00242
	CKN	RN	0.00000	0.00001	0.00003
	CKN	RN	-0.00004	-0.00002	-0.00001
	CKN	RN	0.00182	0.00191	0.00215
	RN	(CKN * D)	0.00160	0.00169	0.00197
	RN	(CKN * D)	0.00000	0.00003	0.00003
	RN	(CKN * D)	-0.00006	-0.00003	0.00001
	RN	(CKN * D)	0.00133	0.00144	0.00173
	RN	(CKN * !D)	0.00158	0.00168	0.00195
	RN	(CKN * !D)	-0.00000	0.00003	0.00005
	RN	(CKN * !D)	-0.00004	-0.00003	-0.00000
	RN	(CKN * !D)	0.00130	0.00142	0.00170
	RN	(!CKN * D)	0.00214	0.00224	0.00250
	RN	(!CKN * D)	-0.00002	0.00000	0.00003
	RN	(!CKN * D)	-0.00001	0.00000	0.00001
	RN	(!CKN * D)	0.00184	0.00193	0.00220
	RN	(!CKN * !D)	0.00215	0.00224	0.00251
	RN	(!CKN * !D)	-0.00002	0.00000	0.00000
	RN	(!CKN * !D)	-0.00000	0.00000	0.00001
	RN	(!CKN * !D)	0.00184	0.00193	0.00219

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX0P5H7R	CKN	RN	0.00236	0.00246	0.00273
	CKN	RN	-0.00003	-0.00001	0.00000
	CKN	RN	0.00001	0.00002	0.00004
	CKN	RN	0.00198	0.00208	0.00236

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7R	0.00277	0.00288	0.00328
	0.00005	0.00006	0.00006
	-0.00004	-0.00003	-0.00003
	0.00354	0.00365	0.00406

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7R	0.00344	0.00353	0.00389
	-0.00005	-0.00004	-0.00003
	0.00003	0.00004	0.00006
	0.00269	0.00279	0.00314

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7R	0.00095	0.00102	0.00128
	0.00003	0.00003	0.00004
	-0.00005	-0.00004	-0.00004
	0.00155	0.00162	0.00188

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7R	0.00160	0.00168	0.00194
	-0.00004	-0.00003	-0.00003
	0.00004	0.00004	0.00005
	0.00100	0.00107	0.00135

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7R	0.00103	0.00118	0.00168
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00154	0.00168	0.00219

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX0P5H7R	0.00081	0.00096	0.00150
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00003
	0.00012	0.00027	0.00081

DFFNRX1H7R

Cell Description

Negative Edge Trigger D Flip-Flop with Async Clear
Q = ! RN ? 0 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	RN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNRX1H7R	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	RN	Q	QN
DFFNRX1H7R	0.00087	0.00072	0.00106	0.07022	0.07044

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNRX1H7R	0.00000	1.10742	1.36181

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX1H7R	CKN->Q (FR)	RN	0.15283	0.31017	0.69466

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX1H7R	CKN->Q (FF)	RN	0.11248	0.24586	0.56305
	RN->Q (FF)	(CKN * D)	0.08143	0.20247	0.49317
	RN->Q (FF)	(CKN * !D)	0.08059	0.20128	0.49125
	RN->Q (FF)	(!CKN * D)	0.08850	0.21033	0.50193
	RN->Q (FF)	(!CKN * !D)	0.08850	0.21033	0.50193

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX1H7R	CKN->QN (FR)	RN	0.08683	0.25146	0.64212
	RN->QN (FR)	(CKN * D)	0.05738	0.20591	0.56704
	RN->QN (FR)	(CKN * !D)	0.05680	0.20477	0.56557
	RN->QN (FR)	(!CKN * D)	0.06225	0.21627	0.58132
	RN->QN (FR)	(!CKN * !D)	0.06225	0.21627	0.58132

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX1H7R	CKN->QN (FF)	RN	0.11981	0.27645	0.60810

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNRX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX1H7R	**hold**	**CKN (F)**	0.00340	0.05827	0.14397
	setup	**CKN (F)**	-0.11925	-0.00610	0.09090

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX1H7R	**hold**	**CKN (F)**	-0.10141	-0.02516	0.03476
	setup	**CKN (F)**	-0.01240	0.05738	0.16329

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX1H7R	**recovery**	**CKN (F)**	-0.13517	-0.02478	0.05770
	removal	**CKN (F)**	0.04392	0.09905	0.19580

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFNRX1H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX1H7R	CKN	RN	0.00266	0.00275	0.00303
	CKN	RN	-0.00003	-0.00001	0.00000
	CKN	RN	0.00002	0.00003	0.00004
	CKN	RN	0.00228	0.00238	0.00265

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX1H7R	CKN	RN	0.00239	0.00247	0.00270
	CKN	RN	0.00000	0.00001	0.00003
	CKN	RN	-0.00004	-0.00002	-0.00002
	CKN	RN	0.00217	0.00226	0.00249
	RN	(CKN * D)	0.00167	0.00178	0.00207
	RN	(CKN * D)	0.00003	0.00003	0.00004
	RN	(CKN * D)	-0.00005	-0.00003	-0.00003
	RN	(CKN * D)	0.00139	0.00150	0.00180
	RN	(CKN * !D)	0.00168	0.00178	0.00207
	RN	(CKN * !D)	0.00002	0.00003	0.00003
	RN	(CKN * !D)	-0.00003	-0.00003	-0.00003
	RN	(CKN * !D)	0.00139	0.00149	0.00178
	RN	(!CKN * D)	0.00236	0.00247	0.00275
	RN	(!CKN * D)	-0.00001	0.00001	0.00004
	RN	(!CKN * D)	-0.00003	0.00000	0.00002
	RN	(!CKN * D)	0.00203	0.00214	0.00243
	RN	(!CKN * !D)	0.00236	0.00247	0.00275
	RN	(!CKN * !D)	-0.00001	0.00001	0.00004
	RN	(!CKN * !D)	-0.00003	0.00000	0.00002
	RN	(!CKN * !D)	0.00202	0.00214	0.00243

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX1H7R	CKN	RN	0.00238	0.00247	0.00270
	CKN	RN	0.00000	0.00001	0.00003
	CKN	RN	-0.00004	-0.00002	-0.00001
	CKN	RN	0.00217	0.00226	0.00249
	RN	(CKN * D)	0.00166	0.00178	0.00207
	RN	(CKN * D)	-0.00000	0.00003	0.00005
	RN	(CKN * D)	-0.00006	-0.00004	-0.00001
	RN	(CKN * D)	0.00138	0.00150	0.00180
	RN	(CKN * !D)	0.00167	0.00178	0.00208
	RN	(CKN * !D)	-0.00001	0.00003	0.00005
	RN	(CKN * !D)	-0.00004	-0.00003	-0.00002
	RN	(CKN * !D)	0.00138	0.00149	0.00180
	RN	(!CKN * D)	0.00236	0.00247	0.00276
	RN	(!CKN * D)	-0.00002	0.00001	0.00003
	RN	(!CKN * D)	-0.00003	0.00000	0.00002
	RN	(!CKN * D)	0.00204	0.00214	0.00244
	RN	(!CKN * !D)	0.00237	0.00247	0.00276
	RN	(!CKN * !D)	-0.00002	0.00001	0.00002
	RN	(!CKN * !D)	-0.00003	-0.00000	0.00001
	RN	(!CKN * !D)	0.00204	0.00214	0.00244

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX1H7R	CKN	RN	0.00266	0.00275	0.00303
	CKN	RN	-0.00002	-0.00001	0.00000
	CKN	RN	0.00001	0.00002	0.00004
	CKN	RN	0.00229	0.00238	0.00265

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7R	0.00341	0.00351	0.00387
	0.00004	0.00005	0.00006
	-0.00004	-0.00004	-0.00003
	0.00410	0.00421	0.00457

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7R	0.00401	0.00410	0.00443
	-0.00002	-0.00001	-0.00000
	0.00004	0.00004	0.00005
	0.00338	0.00347	0.00380

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7R	0.00124	0.00130	0.00155
	0.00002	0.00003	0.00003
	-0.00005	-0.00004	-0.00003
	0.00183	0.00190	0.00214

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7R	0.00180	0.00187	0.00213
	-0.00003	-0.00003	-0.00002
	0.00003	0.00004	0.00005
	0.00121	0.00128	0.00155

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7R	0.00095	0.00109	0.00159
	0.00000	0.00000	0.00000
	-0.00000	0.00001	0.00001
	0.00159	0.00172	0.00222

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX1H7R	0.00093	0.00109	0.00161
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00004
	0.00011	0.00026	0.00079

DFFNRX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop with Async Clear
Q = ! RN ? 0 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	RN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNRX2H7R	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	RN	Q	QN
DFFNRX2H7R	0.00099	0.00073	0.00103	0.08094	0.08153

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNRX2H7R	0.00000	1.24391	1.53968

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX2H7R	CKN->Q (FR)	RN	0.14532	0.30061	0.68053

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX2H7R	CKN->Q (FF)	RN	0.10785	0.23174	0.52333
	RN->Q (FF)	(CKN * D)	0.08142	0.19332	0.46011
	RN->Q (FF)	(CKN * !D)	0.08057	0.19216	0.45858
	RN->Q (FF)	(!CKN * D)	0.08936	0.20206	0.47015
	RN->Q (FF)	(!CKN * !D)	0.08936	0.20205	0.46967

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX2H7R	CKN->QN (FR)	RN	0.08153	0.24578	0.63482
	RN->QN (FR)	(CKN * D)	0.05657	0.20550	0.56729
	RN->QN (FR)	(CKN * !D)	0.05601	0.20437	0.56521
	RN->QN (FR)	(!CKN * D)	0.06208	0.21666	0.58208
	RN->QN (FR)	(!CKN * !D)	0.06208	0.21666	0.58208

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX2H7R	CKN->QN (FF)	RN	0.10961	0.26449	0.59292

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNRX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX2H7R	**hold**	**CKN (F)**	0.00007	0.05033	0.13443
	setup	**CKN (F)**	-0.10652	0.00059	0.09771

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX2H7R	**hold**	**CKN (F)**	-0.10303	-0.02805	0.02774
	setup	**CKN (F)**	-0.00406	0.06152	0.16790

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX2H7R	**recovery**	**CKN (F)**	-0.12649	-0.02126	0.05783
	removal	**CKN (F)**	0.04513	0.09495	0.18501

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFNRX2H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX2H7R	CKN	RN	0.00283	0.00293	0.00325
	CKN	RN	-0.00001	-0.00001	0.00000
	CKN	RN	0.00002	0.00003	0.00005
	CKN	RN	0.00240	0.00250	0.00282

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX2H7R	CKN	RN	0.00261	0.00271	0.00298
	CKN	RN	0.00000	0.00001	0.00002
	CKN	RN	-0.00004	-0.00003	-0.00002
	CKN	RN	0.00236	0.00246	0.00273
	RN	(CKN * D)	0.00184	0.00197	0.00230
	RN	(CKN * D)	0.00001	0.00003	0.00005
	RN	(CKN * D)	-0.00006	-0.00003	-0.00002
	RN	(CKN * D)	0.00156	0.00169	0.00204
	RN	(CKN * !D)	0.00184	0.00197	0.00231
	RN	(CKN * !D)	-0.00000	0.00002	0.00004
	RN	(CKN * !D)	-0.00003	-0.00003	-0.00003
	RN	(CKN * !D)	0.00156	0.00168	0.00204
	RN	(!CKN * D)	0.00256	0.00269	0.00303
	RN	(!CKN * D)	0.00002	0.00002	0.00003
	RN	(!CKN * D)	-0.00002	-0.00000	0.00002
	RN	(!CKN * D)	0.00224	0.00237	0.00272
	RN	(!CKN * !D)	0.00256	0.00269	0.00302
	RN	(!CKN * !D)	0.00002	0.00002	0.00003
	RN	(!CKN * !D)	-0.00002	-0.00000	0.00002
	RN	(!CKN * !D)	0.00225	0.00237	0.00272

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX2H7R	CKN	RN	0.00260	0.00271	0.00298
	CKN	RN	0.00000	0.00001	0.00004
	CKN	RN	-0.00004	-0.00002	-0.00000
	CKN	RN	0.00234	0.00246	0.00273
	RN	(CKN * D)	0.00185	0.00197	0.00231
	RN	(CKN * D)	0.00000	0.00003	0.00004
	RN	(CKN * D)	-0.00006	-0.00003	-0.00000
	RN	(CKN * D)	0.00156	0.00169	0.00206
	RN	(CKN * !D)	0.00185	0.00197	0.00231
	RN	(CKN * !D)	-0.00001	0.00002	0.00006
	RN	(CKN * !D)	-0.00004	-0.00003	-0.00003
	RN	(CKN * !D)	0.00155	0.00168	0.00203
	RN	(!CKN * D)	0.00255	0.00269	0.00303
	RN	(!CKN * D)	-0.00002	0.00002	0.00005
	RN	(!CKN * D)	-0.00002	-0.00000	0.00000
	RN	(!CKN * D)	0.00225	0.00237	0.00274
	RN	(!CKN * !D)	0.00256	0.00269	0.00303
	RN	(!CKN * !D)	-0.00002	0.00002	0.00005
	RN	(!CKN * !D)	-0.00002	-0.00000	0.00001
	RN	(!CKN * !D)	0.00225	0.00237	0.00274

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX2H7R	CKN	RN	0.00282	0.00293	0.00326
	CKN	RN	-0.00002	-0.00001	0.00000
	CKN	RN	0.00000	0.00003	0.00004
	CKN	RN	0.00239	0.00250	0.00283

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7R	0.00348	0.00360	0.00405
	0.00004	0.00004	0.00005
	-0.00004	-0.00003	-0.00002
	0.00425	0.00438	0.00483

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7R	0.00419	0.00430	0.00470
	-0.00001	-0.00000	-0.00000
	0.00002	0.00004	0.00005
	0.00345	0.00357	0.00397

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7R	0.00127	0.00133	0.00158
	0.00002	0.00002	0.00002
	-0.00004	-0.00003	-0.00003
	0.00186	0.00193	0.00217

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7R	0.00179	0.00186	0.00213
	-0.00002	-0.00002	-0.00002
	0.00003	0.00003	0.00004
	0.00120	0.00127	0.00154

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7R	0.00104	0.00121	0.00180
	0.00000	0.00000	0.00000
	-0.00000	0.00000	0.00001
	0.00167	0.00183	0.00242

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX2H7R	0.00096	0.00114	0.00176
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00003
	0.00014	0.00031	0.00094

DFFNRX4H7R

Cell Description

Negative Edge Trigger D Flip-Flop with Async Clear
Q = ! RN ? 0 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	RN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNRX4H7R	11.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	RN	Q	QN
DFFNRX4H7R	0.00103	0.00078	0.00103	0.16126	0.16270

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNRX4H7R	0.00000	1.61994	1.93685

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX4H7R	CKN->Q (FR)	RN	0.16943	0.32218	0.70152

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX4H7R	CKN->Q (FF)	RN	0.12461	0.25328	0.55764
	RN->Q (FF)	(CKN * D)	0.09857	0.21547	0.49557
	RN->Q (FF)	(CKN * !D)	0.09753	0.21426	0.49389
	RN->Q (FF)	(!CKN * D)	0.10782	0.22524	0.50576
	RN->Q (FF)	(!CKN * !D)	0.10782	0.22524	0.50576

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX4H7R	CKN->QN (FR)	RN	0.08620	0.25329	0.64545
	RN->QN (FR)	(CKN * D)	0.06227	0.21432	0.57917
	RN->QN (FR)	(CKN * !D)	0.06172	0.21316	0.57667
	RN->QN (FR)	(!CKN * D)	0.06770	0.22518	0.59290
	RN->QN (FR)	(!CKN * !D)	0.06770	0.22518	0.59290

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNRX4H7R	CKN->QN (FF)	RN	0.11506	0.27348	0.59811

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNRX4H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX4H7R	**hold**	**CKN (F)**	0.00517	0.05484	0.13679
	setup	**CKN (F)**	-0.11114	-0.00360	0.09089

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX4H7R	**hold**	**CKN (F)**	-0.09428	-0.02261	0.03458
	setup	**CKN (F)**	-0.01064	0.05563	0.15753

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNRX4H7R	**recovery**	**CKN (F)**	-0.12910	-0.02364	0.05328
	removal	**CKN (F)**	0.03732	0.08936	0.17871

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFNRX4H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX4H7R	CKN	RN	0.00356	0.00372	0.00406
	CKN	RN	-0.00001	-0.00001	0.00000
	CKN	RN	0.00000	0.00003	0.00003
	CKN	RN	0.00314	0.00327	0.00362

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX4H7R	CKN	RN	0.00334	0.00347	0.00376
	CKN	RN	0.00000	0.00001	0.00002
	CKN	RN	-0.00003	-0.00003	0.00001
	CKN	RN	0.00306	0.00320	0.00351
	RN	(CKN * D)	0.00250	0.00266	0.00303
	RN	(CKN * D)	0.00001	0.00003	0.00004
	RN	(CKN * D)	-0.00006	-0.00004	-0.00003
	RN	(CKN * D)	0.00222	0.00239	0.00278
	RN	(CKN * !D)	0.00248	0.00266	0.00303
	RN	(CKN * !D)	0.00002	0.00003	0.00004
	RN	(CKN * !D)	-0.00006	-0.00003	-0.00001
	RN	(CKN * !D)	0.00221	0.00238	0.00276
	RN	(!CKN * D)	0.00327	0.00342	0.00378
	RN	(!CKN * D)	0.00000	0.00002	0.00004
	RN	(!CKN * D)	-0.00002	-0.00000	0.00002
	RN	(!CKN * D)	0.00295	0.00311	0.00347
	RN	(!CKN * !D)	0.00327	0.00342	0.00378
	RN	(!CKN * !D)	-0.00000	0.00002	0.00004
	RN	(!CKN * !D)	-0.00002	-0.00000	0.00002
	RN	(!CKN * !D)	0.00295	0.00311	0.00347

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX4H7R	CKN	RN	0.00332	0.00347	0.00382
	CKN	RN	0.00000	0.00001	0.00004
	CKN	RN	-0.00004	-0.00003	-0.00001
	CKN	RN	0.00304	0.00320	0.00360
	RN	(CKN * D)	0.00248	0.00266	0.00309
	RN	(CKN * D)	0.00001	0.00004	0.00008
	RN	(CKN * D)	-0.00007	-0.00003	-0.00001
	RN	(CKN * D)	0.00223	0.00240	0.00288
	RN	(CKN * !D)	0.00248	0.00266	0.00303
	RN	(CKN * !D)	-0.00002	0.00003	0.00007
	RN	(CKN * !D)	-0.00005	-0.00003	-0.00000
	RN	(CKN * !D)	0.00222	0.00238	0.00277
	RN	(!CKN * D)	0.00326	0.00343	0.00383
	RN	(!CKN * D)	-0.00001	0.00002	0.00005
	RN	(!CKN * D)	-0.00001	-0.00001	-0.00000
	RN	(!CKN * D)	0.00297	0.00311	0.00355
	RN	(!CKN * !D)	0.00325	0.00343	0.00383
	RN	(!CKN * !D)	-0.00002	0.00002	0.00007
	RN	(!CKN * !D)	-0.00001	-0.00000	0.00001
	RN	(!CKN * !D)	0.00297	0.00311	0.00355

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNRX4H7R	CKN	RN	0.00358	0.00371	0.00405
	CKN	RN	-0.00003	-0.00001	0.00000
	CKN	RN	0.00001	0.00003	0.00005
	CKN	RN	0.00314	0.00326	0.00360

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7R	0.00361	0.00375	0.00422
	0.00000	0.00000	0.00000
	0.00004	0.00005	0.00006
	0.00424	0.00437	0.00484

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7R	0.00428	0.00438	0.00479
	0.00000	0.00000	0.00000
	0.00002	0.00003	0.00004
	0.00350	0.00361	0.00401

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7R	0.00128	0.00136	0.00163
	0.00003	0.00003	0.00003
	-0.00004	-0.00003	-0.00002
	0.00192	0.00199	0.00226

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7R	0.00191	0.00199	0.00227
	-0.00003	-0.00003	-0.00002
	0.00002	0.00003	0.00004
	0.00129	0.00136	0.00166

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7R	0.00106	0.00122	0.00181
	0.00000	0.00000	0.00000
	-0.00000	0.00000	0.00001
	0.00168	0.00185	0.00243

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNRX4H7R	0.00096	0.00113	0.00175
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00003
	0.00013	0.00031	0.00093

DFFNSX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop with Async Set
Q = ! SN ? 1 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	SN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNSX0P5H7R	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	SN	Q	QN
DFFNSX0P5H7R	0.00097	0.00075	0.00077	0.05958	0.05964

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNSX0P5H7R	0.00000	0.84573	1.18712

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX0P5H7R	CKN->Q (FR)	SN	0.12904	0.28478	0.66548
	SN->Q (FR)	(CKN * D)	0.08158	0.24076	0.63090
	SN->Q (FR)	(CKN * !D)	0.08552	0.24774	0.64558
	SN->Q (FR)	(!CKN * D)	0.09221	0.25606	0.65937
	SN->Q (FR)	(!CKN * !D)	0.09221	0.25607	0.65937

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX0P5H7R	CKN->Q (FF)	SN	0.11274	0.24372	0.55451

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX0P5H7R	CKN->QN (FR)	SN	0.08141	0.24687	0.63427

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX0P5H7R	CKN->QN (FF)	SN	0.09791	0.23777	0.55256
	SN->QN (FF)	(CKN * D)	0.05158	0.19140	0.51886
	SN->QN (FF)	(CKN * !D)	0.05495	0.19825	0.53285
	SN->QN (FF)	(!CKN * D)	0.05921	0.21153	0.56283
	SN->QN (FF)	(!CKN * !D)	0.05921	0.21153	0.56283

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNSX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX0P5H7R	**hold**	**CKN (F)**	-0.00543	0.04491	0.12301
	setup	**CKN (F)**	-0.10244	-0.00593	0.09090

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX0P5H7R	**hold**	**CKN (F)**	-0.11299	-0.03376	0.02575
	setup	**CKN (F)**	-0.00714	0.06143	0.16276

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX0P5H7R	**recovery**	**CKN (F)**	-0.09023	0.00236	0.12732
	removal	**CKN (F)**	0.08843	0.14746	0.26800

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFNSX0P5H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX0P5H7R	CKN	SN	0.00242	0.00253	0.00280
	CKN	SN	-0.00003	-0.00002	-0.00002
	CKN	SN	0.00001	0.00001	0.00003
	CKN	SN	0.00199	0.00210	0.00238
	SN	(CKN * D)	0.00130	0.00138	0.00156
	SN	(CKN * D)	-0.00005	-0.00004	-0.00002
	SN	(CKN * D)	0.00002	0.00004	0.00014
	SN	(CKN * D)	0.00093	0.00102	0.00120
	SN	(CKN * !D)	0.00136	0.00144	0.00162
	SN	(CKN * !D)	-0.00006	-0.00005	-0.00003
	SN	(CKN * !D)	0.00002	0.00005	0.00010
	SN	(CKN * !D)	0.00097	0.00106	0.00124
	SN	(!CKN * D)	0.00189	0.00196	0.00215
	SN	(!CKN * D)	-0.00002	-0.00002	0.00001
	SN	(!CKN * D)	-0.00000	0.00002	0.00004
	SN	(!CKN * D)	0.00158	0.00167	0.00186
	SN	(!CKN * !D)	0.00189	0.00196	0.00215
	SN	(!CKN * !D)	-0.00002	-0.00002	-0.00000
	SN	(!CKN * !D)	-0.00000	0.00002	0.00004
	SN	(!CKN * !D)	0.00158	0.00167	0.00186

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX0P5H7R	CKN	SN	0.00224	0.00233	0.00258
	CKN	SN	0.00002	0.00002	0.00003
	CKN	SN	-0.00002	-0.00001	-0.00001
	CKN	SN	0.00198	0.00207	0.00232

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX0P5H7R	CKN	SN	0.00222	0.00233	0.00257
	CKN	SN	0.00001	0.00002	0.00004
	CKN	SN	-0.00003	-0.00001	0.00000
	CKN	SN	0.00198	0.00207	0.00231

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX0P5H7R	CKN	SN	0.00242	0.00253	0.00281
	CKN	SN	-0.00004	-0.00002	-0.00001
	CKN	SN	0.00000	0.00001	0.00003
	CKN	SN	0.00200	0.00210	0.00239
	SN	(CKN * D)	0.00130	0.00138	0.00156
	SN	(CKN * D)	-0.00004	-0.00004	-0.00003
	SN	(CKN * D)	0.00003	0.00004	0.00006
	SN	(CKN * D)	0.00093	0.00102	0.00120
	SN	(CKN * !D)	0.00136	0.00144	0.00162
	SN	(CKN * !D)	-0.00006	-0.00005	-0.00003
	SN	(CKN * !D)	0.00004	0.00005	0.00007
	SN	(CKN * !D)	0.00098	0.00106	0.00124
	SN	(!CKN * D)	0.00189	0.00196	0.00215
	SN	(!CKN * D)	-0.00002	-0.00002	-0.00001
	SN	(!CKN * D)	-0.00000	0.00002	0.00003
	SN	(!CKN * D)	0.00160	0.00167	0.00186
	SN	(!CKN * !D)	0.00189	0.00196	0.00215
	SN	(!CKN * !D)	-0.00002	-0.00002	-0.00001
	SN	(!CKN * !D)	-0.00000	0.00002	0.00003
	SN	(!CKN * !D)	0.00160	0.00167	0.00186

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7R	0.00296	0.00307	0.00345
	0.00005	0.00005	0.00006
	-0.00001	-0.00001	-0.00001
	0.00379	0.00389	0.00427

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7R	0.00364	0.00376	0.00419
	0.00002	0.00002	0.00003
	0.00001	0.00001	0.00001
	0.00298	0.00310	0.00352

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7R	0.00118	0.00124	0.00147
	0.00003	0.00003	0.00003
	-0.00003	-0.00003	-0.00003
	0.00175	0.00181	0.00203

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7R	0.00167	0.00174	0.00199
	-0.00003	-0.00003	-0.00003
	0.00003	0.00003	0.00003
	0.00111	0.00117	0.00143

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7R	0.00040	0.00040	0.00040
	0.00003	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00105	0.00105	0.00106

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX0P5H7R	0.00018	0.00018	0.00019
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	-0.00028	-0.00028	-0.00026

DFFNSX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop with Async Set
Q = ! SN ? 1 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	SN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNSX1H7R	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	SN	Q	QN
DFFNSX1H7R	0.00097	0.00075	0.00077	0.07027	0.07063

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNSX1H7R	0.00000	0.90236	1.27205

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX1H7R	CKN->Q (FR)	SN	0.12644	0.28198	0.66239
	SN->Q (FR)	(CKN * D)	0.08123	0.24055	0.63099
	SN->Q (FR)	(CKN * !D)	0.08536	0.24777	0.64607
	SN->Q (FR)	(!CKN * D)	0.09242	0.25655	0.66040
	SN->Q (FR)	(!CKN * !D)	0.09242	0.25656	0.66047

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX1H7R	CKN->Q (FF)	SN	0.11111	0.24292	0.55550

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX1H7R	CKN->QN (FR)	SN	0.07997	0.24625	0.63469

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX1H7R	CKN->QN (FF)	SN	0.09620	0.23751	0.55521
	SN->QN (FF)	(CKN * D)	0.05167	0.19387	0.52580
	SN->QN (FF)	(CKN * !D)	0.05520	0.20095	0.53982
	SN->QN (FF)	(!CKN * D)	0.05990	0.21491	0.57105
	SN->QN (FF)	(!CKN * !D)	0.05990	0.21491	0.57105

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNSX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX1H7R	**hold**	**CKN (F)**	-0.00609	0.04460	0.12370
	setup	**CKN (F)**	-0.10537	-0.00559	0.09353

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX1H7R	**hold**	**CKN (F)**	-0.11217	-0.03360	0.02575
	setup	**CKN (F)**	-0.00620	0.06195	0.16381

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX1H7R	**recovery**	**CKN (F)**	-0.08965	0.00413	0.13712
	removal	**CKN (F)**	0.08843	0.14735	0.26787

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFNSX1H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX1H7R	CKN	SN	0.00248	0.00259	0.00288
	CKN	SN	-0.00002	-0.00002	-0.00002
	CKN	SN	0.00000	0.00001	0.00004
	CKN	SN	0.00206	0.00217	0.00246
	SN	(CKN * D)	0.00136	0.00145	0.00163
	SN	(CKN * D)	-0.00006	-0.00004	-0.00003
	SN	(CKN * D)	0.00002	0.00004	0.00007
	SN	(CKN * D)	0.00098	0.00109	0.00128
	SN	(CKN * !D)	0.00141	0.00150	0.00170
	SN	(CKN * !D)	-0.00010	-0.00005	-0.00002
	SN	(CKN * !D)	0.00002	0.00005	0.00011
	SN	(CKN * !D)	0.00103	0.00113	0.00132
	SN	(!CKN * D)	0.00196	0.00204	0.00225
	SN	(!CKN * D)	-0.00004	-0.00002	-0.00002
	SN	(!CKN * D)	0.00002	0.00002	0.00004
	SN	(!CKN * D)	0.00166	0.00174	0.00195
	SN	(!CKN * !D)	0.00196	0.00204	0.00225
	SN	(!CKN * !D)	-0.00004	-0.00002	-0.00001
	SN	(!CKN * !D)	0.00002	0.00002	0.00005
	SN	(!CKN * !D)	0.00166	0.00174	0.00195

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX1H7R	CKN	SN	0.00230	0.00240	0.00265
	CKN	SN	0.00002	0.00002	0.00002
	CKN	SN	-0.00002	-0.00001	-0.00000
	CKN	SN	0.00204	0.00214	0.00239

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX1H7R	CKN	SN	0.00229	0.00240	0.00264
	CKN	SN	0.00000	0.00002	0.00005
	CKN	SN	-0.00003	-0.00001	0.00000
	CKN	SN	0.00204	0.00214	0.00239

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX1H7R	CKN	SN	0.00248	0.00259	0.00287
	CKN	SN	-0.00003	-0.00002	0.00000
	CKN	SN	0.00000	0.00001	0.00003
	CKN	SN	0.00205	0.00217	0.00245
	SN	(CKN * D)	0.00136	0.00144	0.00163
	SN	(CKN * D)	-0.00006	-0.00004	-0.00003
	SN	(CKN * D)	0.00001	0.00004	0.00006
	SN	(CKN * D)	0.00099	0.00109	0.00128
	SN	(CKN * !D)	0.00141	0.00150	0.00170
	SN	(CKN * !D)	-0.00010	-0.00005	-0.00004
	SN	(CKN * !D)	0.00003	0.00005	0.00007
	SN	(CKN * !D)	0.00104	0.00113	0.00132
	SN	(!CKN * D)	0.00196	0.00204	0.00225
	SN	(!CKN * D)	-0.00002	-0.00002	-0.00001
	SN	(!CKN * D)	-0.00000	0.00002	0.00004
	SN	(!CKN * D)	0.00165	0.00174	0.00195
	SN	(!CKN * !D)	0.00196	0.00204	0.00225
	SN	(!CKN * !D)	-0.00002	-0.00002	-0.00001
	SN	(!CKN * !D)	0.00000	0.00002	0.00004
	SN	(!CKN * !D)	0.00166	0.00174	0.00195

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7R	0.00299	0.00310	0.00348
	0.00004	0.00005	0.00005
	-0.00003	-0.00002	-0.00002
	0.00380	0.00392	0.00430

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7R	0.00368	0.00380	0.00423
	0.00001	0.00002	0.00003
	0.00002	0.00002	0.00003
	0.00300	0.00313	0.00355

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7R	0.00121	0.00127	0.00150
	0.00003	0.00003	0.00003
	-0.00003	-0.00003	-0.00003
	0.00176	0.00182	0.00206

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7R	0.00169	0.00176	0.00201
	-0.00003	-0.00003	-0.00002
	0.00003	0.00003	0.00003
	0.00114	0.00120	0.00145

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7R	0.00042	0.00042	0.00042
	0.00003	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00108	0.00108	0.00108

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX1H7R	0.00018	0.00018	0.00019
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	-0.00028	-0.00027	-0.00026

DFFNSX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop with Async Set
Q = ! SN ? 1 : falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CKN	D	SN	Q	QN
F	0	1	0	1
F	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFNSX2H7R	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CKN	D	SN	Q	QN
DFFNSX2H7R	0.00105	0.00076	0.00076	0.08118	0.08156

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNSX2H7R	0.00000	1.00289	1.40014

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX2H7R	CKN->Q (FR)	SN	0.11794	0.27212	0.64869
	SN->Q (FR)	(CKN * D)	0.08284	0.24286	0.63537
	SN->Q (FR)	(CKN * !D)	0.08726	0.25035	0.65088
	SN->Q (FR)	(!CKN * D)	0.09491	0.25984	0.66635
	SN->Q (FR)	(!CKN * !D)	0.09491	0.25984	0.66635

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX2H7R	CKN->Q (FF)	SN	0.10659	0.23753	0.54831

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX2H7R	CKN->QN (FR)	SN	0.07548	0.24168	0.62799

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFNSX2H7R	CKN->QN (FF)	SN	0.08780	0.22789	0.54269
	SN->QN (FF)	(CKN * D)	0.05250	0.19678	0.53262
	SN->QN (FF)	(CKN * !D)	0.05628	0.20415	0.54709
	SN->QN (FF)	(!CKN * D)	0.06143	0.21885	0.57900
	SN->QN (FF)	(!CKN * !D)	0.06143	0.21885	0.57900

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNSX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX2H7R	**hold**	**CKN (F)**	-0.01112	0.03810	0.11135
	setup	**CKN (F)**	-0.09363	0.00083	0.09847

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX2H7R	**hold**	**CKN (F)**	-0.11414	-0.03667	0.02041
	setup	**CKN (F)**	-0.00193	0.06650	0.16871

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNSX2H7R	**recovery**	**CKN (F)**	-0.08210	0.01157	0.16150
	removal	**CKN (F)**	0.08197	0.13932	0.25416

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFNSX2H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX2H7R	CKN	SN	0.00261	0.00275	0.00308
	CKN	SN	-0.00002	-0.00002	-0.00001
	CKN	SN	0.00000	0.00001	0.00001
	CKN	SN	0.00218	0.00230	0.00263
	SN	(CKN * D)	0.00145	0.00155	0.00175
	SN	(CKN * D)	-0.00005	-0.00004	-0.00002
	SN	(CKN * D)	0.00002	0.00004	0.00006
	SN	(CKN * D)	0.00110	0.00119	0.00140
	SN	(CKN * !D)	0.00152	0.00161	0.00182
	SN	(CKN * !D)	-0.00008	-0.00005	-0.00004
	SN	(CKN * !D)	0.00005	0.00006	0.00007
	SN	(CKN * !D)	0.00113	0.00123	0.00144
	SN	(!CKN * D)	0.00209	0.00217	0.00240
	SN	(!CKN * D)	-0.00004	-0.00002	-0.00000
	SN	(!CKN * D)	0.00001	0.00002	0.00005
	SN	(!CKN * D)	0.00177	0.00186	0.00209
	SN	(!CKN * !D)	0.00209	0.00217	0.00240
	SN	(!CKN * !D)	-0.00003	-0.00002	-0.00000
	SN	(!CKN * !D)	-0.00000	0.00002	0.00005
	SN	(!CKN * !D)	0.00177	0.00187	0.00210

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX2H7R	CKN	SN	0.00245	0.00257	0.00286
	CKN	SN	0.00002	0.00002	0.00002
	CKN	SN	-0.00001	-0.00001	-0.00000
	CKN	SN	0.00216	0.00228	0.00257

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX2H7R	CKN	SN	0.00243	0.00257	0.00286
	CKN	SN	0.00000	0.00003	0.00005
	CKN	SN	-0.00003	-0.00001	0.00001
	CKN	SN	0.00214	0.00228	0.00258

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFNSX2H7R	CKN	SN	0.00263	0.00275	0.00308
	CKN	SN	-0.00004	-0.00003	-0.00000
	CKN	SN	-0.00000	0.00001	0.00005
	CKN	SN	0.00217	0.00230	0.00263
	SN	(CKN * D)	0.00146	0.00155	0.00175
	SN	(CKN * D)	-0.00006	-0.00004	-0.00004
	SN	(CKN * D)	0.00001	0.00004	0.00006
	SN	(CKN * D)	0.00109	0.00119	0.00140
	SN	(CKN * !D)	0.00152	0.00161	0.00182
	SN	(CKN * !D)	-0.00010	-0.00005	-0.00003
	SN	(CKN * !D)	0.00003	0.00005	0.00008
	SN	(CKN * !D)	0.00113	0.00123	0.00144
	SN	(!CKN * D)	0.00209	0.00217	0.00240
	SN	(!CKN * D)	-0.00004	-0.00002	-0.00001
	SN	(!CKN * D)	0.00002	0.00002	0.00004
	SN	(!CKN * D)	0.00176	0.00186	0.00209
	SN	(!CKN * !D)	0.00209	0.00217	0.00240
	SN	(!CKN * !D)	-0.00002	-0.00002	-0.00001
	SN	(!CKN * !D)	0.00002	0.00002	0.00004
	SN	(!CKN * !D)	0.00177	0.00186	0.00209

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7R	0.00309	0.00322	0.00369
	0.00002	0.00003	0.00004
	-0.00003	-0.00002	-0.00002
	0.00393	0.00407	0.00454

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7R	0.00386	0.00400	0.00451
	0.00001	0.00001	0.00002
	0.00002	0.00003	0.00003
	0.00311	0.00326	0.00377

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7R	0.00125	0.00132	0.00155
	0.00001	0.00002	0.00002
	-0.00002	-0.00002	-0.00002
	0.00179	0.00186	0.00210

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7R	0.00171	0.00178	0.00203
	-0.00002	-0.00002	-0.00001
	0.00002	0.00002	0.00002
	0.00117	0.00123	0.00149

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7R	0.00044	0.00044	0.00044
	0.00003	0.00004	0.00004
	0.00000	0.00000	0.00000
	0.00111	0.00111	0.00111

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNSX2H7R	0.00018	0.00018	0.00019
	0.00000	0.00000	0.00001
	0.00000	0.00000	0.00000
	-0.00028	-0.00027	-0.00025

DFFNX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Triggered D Flip-Flop
Q = falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CKN	D	Q	QN
F	0	0	1
F	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFNX0P5H7R	7.00000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CKN	D	Q	QN
DFFNX0P5H7R	0.00090	0.00071	0.05969	0.05963

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNX0P5H7R	0.00000	0.92061	1.03384

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX0P5H7R	CKN->Q (FR)	0.07986	0.23945	0.62230

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX0P5H7R	CKN->Q (FF)	0.10788	0.24401	0.55206

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX0P5H7R	CKN->QN (FR)	0.13423	0.28600	0.66044

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX0P5H7R	CKN->QN (FF)	0.10361	0.23130	0.53913

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX0P5H7R	**hold**	**CKN (F)**	-0.05455	0.02538	0.11287
	setup	**CKN (F)**	-0.09034	0.00616	0.09338

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX0P5H7R	**hold**	**CKN (F)**	-0.09871	-0.02655	0.03074
	setup	**CKN (F)**	-0.02182	0.03678	0.11904

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX0P5H7R	CKN	0.00215	0.00225	0.00251
	CKN	0.00002	0.00004	0.00005
	CKN	-0.00003	-0.00001	0.00015
	CKN	0.00174	0.00197	0.00227

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX0P5H7R	CKN	0.00218	0.00226	0.00249
	CKN	-0.00004	-0.00003	-0.00002
	CKN	0.00002	0.00004	0.00005
	CKN	0.00178	0.00187	0.00211

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX0P5H7R	CKN	0.00218	0.00226	0.00250
	CKN	-0.00003	-0.00003	-0.00003
	CKN	0.00004	0.00004	0.00004
	CKN	0.00179	0.00187	0.00211

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX0P5H7R	CKN	0.00215	0.00225	0.00250
	CKN	0.00004	0.00004	0.00004
	CKN	-0.00003	-0.00001	0.00015
	CKN	0.00174	0.00197	0.00224

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX0P5H7R	0.00285	0.00298	0.00341
	-0.00001	-0.00000	0.00000
	0.00004	0.00005	0.00006
	0.00331	0.00343	0.00386

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX0P5H7R	0.00237	0.00249	0.00293
	0.00000	0.00000	0.00001
	-0.00000	-0.00000	0.00000
	0.00172	0.00184	0.00228

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX0P5H7R	0.00099	0.00105	0.00129
	0.00004	0.00005	0.00005
	-0.00004	-0.00004	-0.00004
	0.00156	0.00162	0.00187

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX0P5H7R	0.00167	0.00173	0.00200
	-0.00005	-0.00005	-0.00004
	0.00004	0.00004	0.00004
	0.00109	0.00116	0.00142

DFFNX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop
Q = falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CKN	D	Q	QN
F	0	0	1
F	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFNX1H7R	7.00000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CKN	D	Q	QN
DFFNX1H7R	0.00090	0.00071	0.06336	0.06327

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNX1H7R	0.00000	0.96688	1.08438

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX1H7R	CKN->Q (FR)	0.07918	0.23893	0.62216

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX1H7R	CKN->Q (FF)	0.10692	0.23563	0.52314

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX1H7R	CKN->QN (FR)	0.13468	0.28645	0.66156

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX1H7R	CKN->QN (FF)	0.10219	0.22204	0.50862

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNX1H7R	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX1H7R	**hold**	**CKN (F)**	-0.05624	0.02602	0.11595
	setup	**CKN (F)**	-0.09029	0.00628	0.09403

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX1H7R	**hold**	**CKN (F)**	-0.09871	-0.02616	0.03295
	setup	**CKN (F)**	-0.02182	0.03694	0.11814

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX1H7R	CKN	0.00222	0.00233	0.00259
	CKN	0.00002	0.00004	0.00007
	CKN	-0.00004	-0.00001	0.00015
	CKN	0.00182	0.00205	0.00234

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX1H7R	CKN	0.00225	0.00235	0.00258
	CKN	-0.00004	-0.00003	-0.00002
	CKN	0.00002	0.00004	0.00006
	CKN	0.00188	0.00196	0.00220

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX1H7R	CKN	0.00225	0.00235	0.00259
	CKN	-0.00004	-0.00003	-0.00001
	CKN	0.00003	0.00004	0.00006
	CKN	0.00187	0.00196	0.00220

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX1H7R	CKN	0.00223	0.00232	0.00258
	CKN	0.00004	0.00004	0.00005
	CKN	-0.00003	-0.00001	0.00015
	CKN	0.00182	0.00205	0.00232

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX1H7R	0.00291	0.00302	0.00344
	-0.00001	-0.00000	0.00000
	0.00005	0.00005	0.00007
	0.00336	0.00346	0.00389

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX1H7R	0.00240	0.00251	0.00295
	0.00000	0.00000	0.00001
	-0.00000	-0.00000	0.00000
	0.00174	0.00186	0.00230

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX1H7R	0.00100	0.00106	0.00131
	0.00005	0.00005	0.00005
	-0.00005	-0.00004	-0.00004
	0.00157	0.00164	0.00188

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX1H7R	0.00167	0.00174	0.00200
	-0.00005	-0.00005	-0.00005
	0.00004	0.00004	0.00005
	0.00109	0.00116	0.00143

DFFNX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop
Q = falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CKN	D	Q	QN
F	0	0	1
F	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFNX2H7R	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CKN	D	Q	QN
DFFNX2H7R	0.00095	0.00071	0.08937	0.08116

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNX2H7R	0.00000	1.09350	1.22524

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX2H7R	CKN->Q (FR)	0.07338	0.23304	0.61400

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX2H7R	CKN->Q (FF)	0.10101	0.24642	0.57753

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX2H7R	CKN->QN (FR)	0.12718	0.27681	0.64721

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX2H7R	CKN->QN (FF)	0.09849	0.22588	0.53357

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNX2H7R	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX2H7R	**hold**	**CKN (F)**	-0.06055	0.01866	0.10431
	setup	**CKN (F)**	-0.08173	0.01122	0.09918

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX2H7R	**hold**	**CKN (F)**	-0.10295	-0.02969	0.02367
	setup	**CKN (F)**	-0.01526	0.04058	0.12395

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX2H7R	CKN	0.00240	0.00254	0.00284
	CKN	0.00002	0.00005	0.00008
	CKN	-0.00004	-0.00003	-0.00002
	CKN	0.00215	0.00227	0.00257

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX2H7R	CKN	0.00245	0.00256	0.00285
	CKN	-0.00005	-0.00003	-0.00002
	CKN	0.00002	0.00004	0.00007
	CKN	0.00204	0.00215	0.00244

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX2H7R	CKN	0.00245	0.00256	0.00285
	CKN	-0.00003	-0.00003	-0.00002
	CKN	0.00004	0.00005	0.00005
	CKN	0.00204	0.00215	0.00244

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX2H7R	CKN	0.00242	0.00254	0.00284
	CKN	0.00005	0.00005	0.00005
	CKN	-0.00003	-0.00003	-0.00003
	CKN	0.00215	0.00227	0.00258

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX2H7R	0.00301	0.00315	0.00366
	-0.00001	-0.00000	-0.00000
	0.00004	0.00004	0.00005
	0.00352	0.00365	0.00415

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX2H7R	0.00249	0.00264	0.00316
	0.00000	0.00000	0.00001
	-0.00001	-0.00000	0.00000
	0.00180	0.00194	0.00247

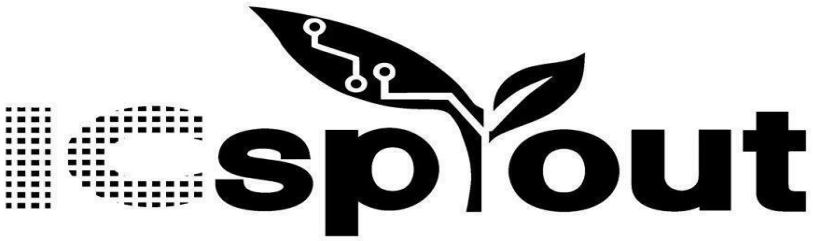
Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX2H7R	0.00106	0.00112	0.00137
	0.00003	0.00004	0.00004
	-0.00004	-0.00004	-0.00003
	0.00162	0.00169	0.00193

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX2H7R	0.00175	0.00182	0.00209
	-0.00004	-0.00004	-0.00003
	0.00003	0.00004	0.00004
	0.00118	0.00125	0.00152

DFFNX3H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger D Flip-Flop
Q = falling (CKN) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CKN	D	Q	QN
F	0	0	1
F	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFNX3H7R	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CKN	D	Q	QN
DFFNX3H7R	0.00094	0.00075	0.12618	0.12648

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFNX3H7R	0.00000	1.29850	1.43935

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX3H7R	CKN->Q (FR)	0.07722	0.23862	0.62172

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX3H7R	CKN->Q (FF)	0.10379	0.24414	0.55621

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX3H7R	CKN->QN (FR)	0.13689	0.28717	0.66031

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFNX3H7R	CKN->QN (FF)	0.10702	0.23662	0.54902

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
DFFNX3H7R	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX3H7R	**hold**	**CKN (F)**	-0.05331	0.02485	0.11028
	setup	**CKN (F)**	-0.09041	0.00426	0.09273

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFNX3H7R	**hold**	**CKN (F)**	-0.09679	-0.02547	0.03249
	setup	**CKN (F)**	-0.02365	0.03618	0.11790

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX3H7R	CKN	0.00277	0.00288	0.00320
	CKN	0.00001	0.00005	0.00005
	CKN	-0.00006	-0.00003	-0.00001
	CKN	0.00248	0.00263	0.00295

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX3H7R	CKN	0.00277	0.00288	0.00319
	CKN	-0.00005	-0.00003	-0.00001
	CKN	0.00001	0.00005	0.00007
	CKN	0.00233	0.00246	0.00279

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX3H7R	CKN	0.00277	0.00288	0.00318
	CKN	-0.00004	-0.00003	-0.00002
	CKN	0.00002	0.00005	0.00006
	CKN	0.00234	0.00246	0.00276

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFNX3H7R	CKN	0.00274	0.00288	0.00319
	CKN	0.00005	0.00005	0.00007
	CKN	-0.00005	-0.00003	-0.00002
	CKN	0.00249	0.00263	0.00293

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX3H7R	0.00313	0.00327	0.00377
	-0.00001	-0.00000	0.00000
	0.00004	0.00005	0.00006
	0.00360	0.00374	0.00425

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX3H7R	0.00259	0.00274	0.00325
	0.00000	0.00000	0.00001
	-0.00000	0.00000	0.00000
	0.00189	0.00203	0.00255

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFNX3H7R	0.00113	0.00120	0.00149
	0.00005	0.00005	0.00006
	-0.00004	-0.00004	-0.00004
	0.00175	0.00182	0.00210

Passive power(pJ) for D falling :

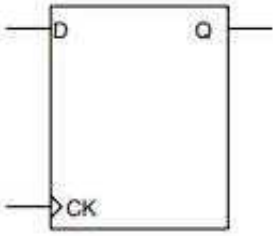
Cell Name	Power(pJ)		
	min	avg	max
DFFNX3H7R	0.00186	0.00194	0.00224
	-0.00006	-0.00005	-0.00005
	0.00004	0.00004	0.00004
	0.00123	0.00131	0.00161

DFFQX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFQ cell is a positive edge-triggered, static D-type flip-flop. The cell has a single output (Q) .



Truth Table

INPUT		OUTPUT
CK	D	Q
R	0	0
R	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFQX0P5H7R	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	D	Q
DFFQX0P5H7R	0.00089	0.00070	0.05953

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFQX0P5H7R	0.00000	0.81930	0.92202

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX0P5H7R	**CK->Q (RR)**	0.09277	0.24316	0.59806

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX0P5H7R	**CK->Q (RF)**	0.06880	0.19796	0.48795

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFQX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX0P5H7R	**hold**	**CK (R)**	-0.06792	-0.02254	0.00779
	setup	**CK (R)**	0.00031	0.03369	0.08665

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX0P5H7R	**hold**	**CK (R)**	-0.09045	0.00006	0.07140
	setup	**CK (R)**	-0.04641	0.03310	0.13540

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX0P5H7R	CK	0.00322	0.00336	0.00382
	CK	0.00005	0.00006	0.00007
	CK	-0.00007	-0.00004	-0.00003
	CK	0.00396	0.00410	0.00453

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX0P5H7R	CK	0.00297	0.00311	0.00358
	CK	-0.00007	-0.00004	-0.00003
	CK	0.00006	0.00007	0.00007
	CK	0.00349	0.00365	0.00416

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX0P5H7R	0.00163	0.00174	0.00215
	-0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	0.00226	0.00237	0.00279

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX0P5H7R	0.00334	0.00347	0.00394
	0.00005	0.00006	0.00008
	-0.00000	-0.00000	0.00000
	0.00289	0.00302	0.00349

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX0P5H7R	0.00105	0.00112	0.00136
	0.00004	0.00005	0.00005
	-0.00004	-0.00004	-0.00003
	0.00161	0.00168	0.00192

Passive power(pJ) for D falling :

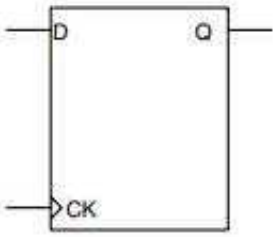
Cell Name	Power(pJ)		
	min	avg	max
DFFQX0P5H7R	0.00160	0.00167	0.00194
	-0.00005	-0.00005	-0.00004
	0.00003	0.00004	0.00005
	0.00104	0.00111	0.00137

DFFQX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFQ cell is a positive edge-triggered, static D-type flip-flop. The cell has a single output (Q) .



Truth Table

INPUT		OUTPUT
CK	D	Q
R	0	0
R	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFQX1H7R	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	D	Q
DFFQX1H7R	0.00089	0.00070	0.07054

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFQX1H7R	0.00000	0.82926	0.93574

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX1H7R	CK->Q (RR)	0.09470	0.24623	0.60280

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX1H7R	CK->Q (RF)	0.06860	0.19965	0.49293

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFQX1H7R	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX1H7R	**hold**	**CK (R)**	-0.06726	-0.02240	0.00779
	setup	**CK (R)**	0.00031	0.03385	0.08665

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX1H7R	**hold**	**CK (R)**	-0.08974	0.00096	0.06960
	setup	**CK (R)**	-0.04797	0.03322	0.13729

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX1H7R	CK	0.00325	0.00339	0.00384
	CK	0.00002	0.00006	0.00006
	CK	-0.00005	-0.00004	-0.00003
	CK	0.00398	0.00411	0.00455

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX1H7R	CK	0.00299	0.00314	0.00359
	CK	-0.00006	-0.00003	-0.00000
	CK	0.00006	0.00006	0.00007
	CK	0.00354	0.00369	0.00416

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX1H7R	0.00160	0.00172	0.00212
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00001
	0.00224	0.00235	0.00276

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX1H7R	0.00339	0.00352	0.00399
	0.00004	0.00006	0.00007
	-0.00001	-0.00000	0.00000
	0.00293	0.00307	0.00353

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX1H7R	0.00106	0.00113	0.00137
	0.00004	0.00005	0.00005
	-0.00004	-0.00004	-0.00003
	0.00162	0.00169	0.00193

Passive power(pJ) for D falling :

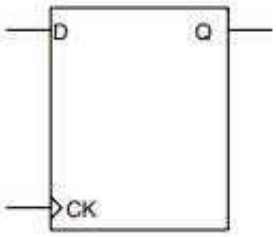
Cell Name	Power(pJ)		
	min	avg	max
DFFQX1H7R	0.00162	0.00169	0.00195
	-0.00005	-0.00005	-0.00004
	0.00003	0.00004	0.00004
	0.00105	0.00112	0.00139

DFFQX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFQ cell is a positive edge-triggered, static D-type flip-flop. The cell has a single output (Q) .



Truth Table

INPUT		OUTPUT
CK	D	Q
R	0	0
R	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFQX2H7R	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	D	Q
DFFQX2H7R	0.00089	0.00070	0.08095

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFQX2H7R	0.00000	0.85217	0.96598

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX2H7R	CK->Q (RR)	0.09550	0.24728	0.60323

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX2H7R	CK->Q (RF)	0.06963	0.20190	0.49729

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFQX2H7R	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX2H7R	**hold**	**CK (R)**	-0.06709	-0.02252	0.00723
	setup	**CK (R)**	-0.00060	0.03364	0.08665

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX2H7R	**hold**	**CK (R)**	-0.09019	0.00112	0.07096
	setup	**CK (R)**	-0.04758	0.03286	0.13357

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX2H7R	CK	0.00339	0.00354	0.00400
	CK	0.00006	0.00006	0.00007
	CK	-0.00004	-0.00003	-0.00003
	CK	0.00412	0.00426	0.00470

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX2H7R	CK	0.00314	0.00329	0.00375
	CK	-0.00006	-0.00002	0.00002
	CK	0.00004	0.00006	0.00007
	CK	0.00371	0.00386	0.00438

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX2H7R	0.00161	0.00172	0.00212
	0.00000	0.00000	0.00001
	-0.00001	0.00000	0.00001
	0.00225	0.00236	0.00276

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX2H7R	0.00367	0.00379	0.00421
	-0.00001	-0.00000	-0.00000
	0.00004	0.00005	0.00006
	0.00283	0.00295	0.00337

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX2H7R	0.00107	0.00113	0.00138
	0.00004	0.00004	0.00005
	-0.00005	-0.00004	-0.00004
	0.00163	0.00170	0.00194

Passive power(pJ) for D falling :

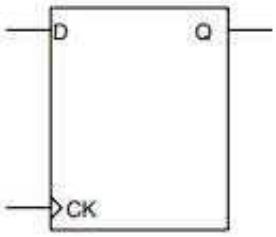
Cell Name	Power(pJ)		
	min	avg	max
DFFQX2H7R	0.00163	0.00170	0.00196
	-0.00005	-0.00004	-0.00004
	0.00004	0.00004	0.00005
	0.00106	0.00113	0.00140

DFFQX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFQ cell is a positive edge-triggered, static D-type flip-flop. The cell has a single output (Q) .



Truth Table

INPUT		OUTPUT
CK	D	Q
R	0	0
R	1	1
x	x	IQ

Footprint

Cell Name	Area
DFFQX3H7R	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	D	Q
DFFQX3H7R	0.00092	0.00072	0.12623

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFQX3H7R	0.00000	0.96307	1.12173

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX3H7R	CK->Q (RR)	0.09686	0.25076	0.60669

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFQX3H7R	CK->Q (RF)	0.07488	0.21109	0.50851

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFQX3H7R	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX3H7R	**hold**	**CK (R)**	-0.06480	-0.02286	0.00567
	setup	**CK (R)**	0.00319	0.03348	0.08545

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFQX3H7R	**hold**	**CK (R)**	-0.08709	0.00080	0.06793
	setup	**CK (R)**	-0.04886	0.03117	0.13246

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX3H7R	CK	0.00368	0.00384	0.00439
	CK	-0.00000	0.00003	0.00003
	CK	-0.00002	-0.00002	0.00002
	CK	0.00437	0.00453	0.00502

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFQX3H7R	CK	0.00349	0.00365	0.00419
	CK	-0.00003	0.00000	0.00004
	CK	0.00000	0.00004	0.00005
	CK	0.00412	0.00429	0.00482

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX3H7R	0.00165	0.00177	0.00221
	0.00000	0.00000	0.00001
	-0.00001	-0.00000	0.00001
	0.00229	0.00242	0.00286

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX3H7R	0.00369	0.00383	0.00430
	-0.00001	-0.00000	0.00000
	0.00005	0.00006	0.00007
	0.00284	0.00297	0.00344

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX3H7R	0.00106	0.00113	0.00139
	0.00005	0.00006	0.00006
	-0.00005	-0.00005	-0.00004
	0.00165	0.00172	0.00198

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFQX3H7R	0.00165	0.00172	0.00200
	-0.00006	-0.00006	-0.00005
	0.00004	0.00005	0.00005
	0.00105	0.00112	0.00140

DFFRQNX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear, Single Output QN
QN = !RN ? 1 : rising (CK) ? !D : pre_QN

Truth Table

INPUT			OUTPUT
CK	D	RN	QN
R	0	1	1
R	1	1	0
x	x	0	1
x	x	1	IQN

Footprint

Cell Name	Area
DFFRQNX1H7R	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	QN
DFFRQNX1H7R	0.00088	0.00082	0.00128	0.05776

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFRQNX1H7R	0.00000	0.75987	0.97107

Delay Information

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQNX1H7R	CK->QN (RR)	-	0.10129	0.25285	0.61711
	RN->QN (FR)	(CK * D)	0.09729	0.25707	0.64769
	RN->QN (FR)	(CK * !D)	0.09729	0.25707	0.64769
	RN->QN (FR)	(!CK * D)	0.10825	0.26458	0.65179
	RN->QN (FR)	(!CK * !D)	0.11162	0.26922	0.65950

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQNX1H7R	CK->QN (RF)	-	0.12988	0.25055	0.52657

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRQNX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX1H7R	**hold**	**CK (R)**	-0.04649	0.01113	0.08204
	setup	**CK (R)**	-0.05071	0.03366	0.10247

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX1H7R	**hold**	**CK (R)**	-0.10823	-0.03843	0.00702
	setup	**CK (R)**	0.01206	0.05899	0.13255

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRQNX1H7R	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX1H7R	**hold**	**CK (R)**	0.02906	0.07862	0.15520
	setup	**CK (R)**	-0.12284	-0.01460	0.13272

Power Information

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQNX1H7R	CK	-	0.00336	0.00349	0.00388
	CK	-	-0.00006	-0.00005	-0.00005
	CK	-	0.00004	0.00004	0.00005
	CK	-	0.00384	0.00399	0.00433
	RN	(CK * D)	0.00326	0.00338	0.00366
	RN	(CK * D)	-0.00006	-0.00005	-0.00002
	RN	(CK * D)	-0.00005	-0.00001	0.00002
	RN	(CK * D)	0.00239	0.00251	0.00281
	RN	(CK * !D)	0.00326	0.00338	0.00367
	RN	(CK * !D)	-0.00008	-0.00005	-0.00003
	RN	(CK * !D)	-0.00005	-0.00001	0.00003
	RN	(CK * !D)	0.00237	0.00251	0.00281
	RN	(!CK * D)	0.00304	0.00322	0.00369
	RN	(!CK * D)	-0.00021	-0.00018	-0.00015
	RN	(!CK * D)	0.00013	0.00017	0.00022
	RN	(!CK * D)	0.00177	0.00195	0.00243
	RN	(!CK * !D)	0.00227	0.00236	0.00249
	RN	(!CK * !D)	-0.00014	-0.00010	-0.00004
	RN	(!CK * !D)	0.00004	0.00007	0.00009
	RN	(!CK * !D)	0.00133	0.00140	0.00153

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQNX1H7R	CK	-	0.00333	0.00347	0.00386
	CK	-	0.00005	0.00005	0.00006
	CK	-	-0.00005	-0.00004	-0.00003
	CK	-	0.00410	0.00425	0.00467

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7R	(D * RN)	0.00162	0.00171	0.00201
	(D * RN)	0.00000	0.00000	0.00001
	(D * RN)	-0.00001	-0.00001	0.00000
	(D * RN)	0.00230	0.00238	0.00269
	(D * !RN)	0.00217	0.00226	0.00254
	(D * !RN)	0.00005	0.00006	0.00007
	(D * !RN)	-0.00010	-0.00010	-0.00009
	(D * !RN)	0.00304	0.00312	0.00340
	(!D * RN)	0.00157	0.00166	0.00195
	(!D * RN)	-0.00000	0.00000	0.00001
	(!D * RN)	0.00000	0.00000	0.00000
	(!D * RN)	0.00225	0.00233	0.00263
	(!D * !RN)	0.00157	0.00165	0.00195
	(!D * !RN)	-0.00000	-0.00000	0.00000
	(!D * !RN)	-0.00001	-0.00001	0.00000
	(!D * !RN)	0.00224	0.00232	0.00262

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7R	(D * RN)	0.00365	0.00374	0.00404
	(D * RN)	-0.00000	-0.00000	0.00000
	(D * RN)	0.00007	0.00008	0.00009
	(D * RN)	0.00298	0.00306	0.00337
	(D * !RN)	0.00296	0.00305	0.00336
	(D * !RN)	-0.00006	-0.00006	-0.00005
	(D * !RN)	0.00010	0.00010	0.00010
	(D * !RN)	0.00210	0.00219	0.00250
	(!D * RN)	0.00379	0.00391	0.00430
	(!D * RN)	0.00000	0.00001	0.00002
	(!D * RN)	0.00000	0.00000	0.00000
	(!D * RN)	0.00311	0.00322	0.00361
	(!D * !RN)	0.00235	0.00245	0.00278
	(!D * !RN)	-0.00000	0.00000	0.00001
	(!D * !RN)	0.00000	0.00001	0.00001
	(!D * !RN)	0.00168	0.00178	0.00211

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7R	(CK * RN)	0.00005	0.00015	0.00053
	(CK * RN)	0.00002	0.00003	0.00003
	(CK * RN)	-0.00003	-0.00003	-0.00003
	(CK * RN)	0.00070	0.00080	0.00118
	(CK * !RN)	0.00005	0.00015	0.00053
	(CK * !RN)	0.00002	0.00003	0.00003
	(CK * !RN)	-0.00003	-0.00003	-0.00003
	(CK * !RN)	0.00070	0.00080	0.00118
	(!CK * RN)	0.00140	0.00150	0.00187
	(!CK * RN)	0.00001	0.00001	0.00001
	(!CK * RN)	0.00003	0.00003	0.00004
	(!CK * RN)	0.00204	0.00214	0.00251
	(!CK * !RN)	0.00072	0.00082	0.00119
	(!CK * !RN)	-0.00007	-0.00006	-0.00006
	(!CK * !RN)	0.00010	0.00011	0.00012
	(!CK * !RN)	0.00109	0.00119	0.00157

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7R	(CK * RN)	0.00077	0.00089	0.00130
	(CK * RN)	-0.00003	-0.00003	-0.00002
	(CK * RN)	0.00003	0.00003	0.00003
	(CK * RN)	0.00012	0.00024	0.00065
	(CK * !RN)	0.00077	0.00089	0.00130
	(CK * !RN)	-0.00003	-0.00003	-0.00002
	(CK * !RN)	0.00003	0.00003	0.00003
	(CK * !RN)	0.00012	0.00024	0.00065
	(!CK * RN)	0.00222	0.00233	0.00274
	(!CK * RN)	-0.00001	-0.00001	-0.00001
	(!CK * RN)	-0.00004	-0.00003	-0.00003
	(!CK * RN)	0.00158	0.00169	0.00209
	(!CK * !RN)	0.00135	0.00147	0.00189
	(!CK * !RN)	0.00006	0.00006	0.00007
	(!CK * !RN)	-0.00011	-0.00011	-0.00010
	(!CK * !RN)	0.00098	0.00110	0.00151

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7R	(CK * D)	-0.00029	-0.00029	-0.00029
	(CK * D)	-0.00001	-0.00001	-0.00000
	(CK * D)	0.00000	0.00001	0.00002
	(CK * D)	0.00043	0.00044	0.00044
	(CK * !D)	-0.00030	-0.00029	-0.00029
	(CK * !D)	-0.00001	-0.00000	0.00001
	(CK * !D)	0.00000	0.00001	0.00002
	(CK * !D)	0.00043	0.00044	0.00044
	(!CK * D)	0.00025	0.00030	0.00051
	(!CK * D)	0.00007	0.00008	0.00008
	(!CK * D)	-0.00009	-0.00008	-0.00008
	(!CK * D)	0.00129	0.00135	0.00155
	(!CK * !D)	-0.00034	-0.00034	-0.00034
	(!CK * !D)	-0.00001	-0.00001	-0.00000
	(!CK * !D)	0.00001	0.00001	0.00002
	(!CK * !D)	0.00038	0.00039	0.00039

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX1H7R	(CK * D)	0.00030	0.00030	0.00030
	(CK * D)	0.00000	0.00001	0.00002
	(CK * D)	-0.00002	-0.00001	-0.00000
	(CK * D)	-0.00043	-0.00042	-0.00040
	(CK * !D)	0.00029	0.00030	0.00030
	(CK * !D)	0.00000	0.00001	0.00001
	(CK * !D)	-0.00002	-0.00001	-0.00000
	(CK * !D)	-0.00043	-0.00042	-0.00040
	(!CK * D)	0.00113	0.00122	0.00155
	(!CK * D)	-0.00008	-0.00008	-0.00007
	(!CK * D)	0.00008	0.00008	0.00009
	(!CK * D)	0.00009	0.00018	0.00051
	(!CK * !D)	0.00035	0.00035	0.00035
	(!CK * !D)	0.00000	0.00001	0.00002
	(!CK * !D)	-0.00002	-0.00001	-0.00001
	(!CK * !D)	-0.00038	-0.00038	-0.00037

DFFRQNX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear, Single Output QN
QN = !RN ? 1 : rising (CK) ? !D : pre_QN

Truth Table

INPUT			OUTPUT
CK	D	RN	QN
R	0	1	1
R	1	1	0
x	x	0	1
x	x	1	IQN

Footprint

Cell Name	Area
DFFRQNX2H7R	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	QN
DFFRQNX2H7R	0.00088	0.00083	0.00126	0.07786

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFRQNX2H7R	0.00000	0.84629	1.07394

Delay Information

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQNX2H7R	CK->QN (RR)	-	0.10081	0.25337	0.61906
	RN->QN (FR)	(CK * D)	0.09685	0.25762	0.65004
	RN->QN (FR)	(CK * !D)	0.09686	0.25762	0.65004
	RN->QN (FR)	(!CK * D)	0.10837	0.26584	0.65561
	RN->QN (FR)	(!CK * !D)	0.11175	0.27045	0.66351

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQNX2H7R	CK->QN (RF)	-	0.12896	0.24270	0.49746

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRQNX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX2H7R	**hold**	**CK (R)**	-0.04567	0.01127	0.07909
	setup	**CK (R)**	-0.05085	0.03374	0.10252

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX2H7R	**hold**	**CK (R)**	-0.10647	-0.03822	0.00766
	setup	**CK (R)**	0.01203	0.05898	0.13257

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRQNX2H7R	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQNX2H7R	**hold**	**CK (R)**	0.02906	0.07853	0.15520
	setup	**CK (R)**	-0.12298	-0.01429	0.13253

Power Information

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQNX2H7R	CK	-	0.00349	0.00366	0.00407
	CK	-	-0.00008	-0.00006	-0.00003
	CK	-	0.00000	0.00005	0.00006
	CK	-	0.00399	0.00414	0.00449
	RN	(CK * D)	0.00341	0.00354	0.00383
	RN	(CK * D)	-0.00009	-0.00006	-0.00001
	RN	(CK * D)	-0.00001	-0.00001	0.00005
	RN	(CK * D)	0.00251	0.00267	0.00297
	RN	(CK * !D)	0.00341	0.00354	0.00383
	RN	(CK * !D)	-0.00007	-0.00006	-0.00005
	RN	(CK * !D)	-0.00005	-0.00001	-0.00000
	RN	(CK * !D)	0.00254	0.00267	0.00297
	RN	(!CK * D)	0.00319	0.00338	0.00389
	RN	(!CK * D)	-0.00020	-0.00019	-0.00016
	RN	(!CK * D)	0.00014	0.00017	0.00017
	RN	(!CK * D)	0.00194	0.00211	0.00260
	RN	(!CK * !D)	0.00244	0.00252	0.00272
	RN	(!CK * !D)	-0.00012	-0.00011	-0.00009
	RN	(!CK * !D)	0.00008	0.00009	0.00011
	RN	(!CK * !D)	0.00147	0.00155	0.00170

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQNX2H7R	CK	-	0.00351	0.00367	0.00407
	CK	-	0.00003	0.00006	0.00008
	CK	-	-0.00006	-0.00005	0.00000
	CK	-	0.00432	0.00447	0.00489

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7R	(D * RN)	0.00162	0.00170	0.00200
	(D * RN)	0.00000	0.00000	0.00001
	(D * RN)	-0.00002	-0.00001	-0.00000
	(D * RN)	0.00230	0.00238	0.00268
	(D * !RN)	0.00216	0.00225	0.00253
	(D * !RN)	0.00005	0.00006	0.00007
	(D * !RN)	-0.00010	-0.00010	-0.00009
	(D * !RN)	0.00303	0.00311	0.00340
	(!D * RN)	0.00157	0.00166	0.00195
	(!D * RN)	-0.00001	-0.00000	0.00000
	(!D * RN)	0.00000	0.00000	0.00000
	(!D * RN)	0.00224	0.00233	0.00263
	(!D * !RN)	0.00157	0.00165	0.00195
	(!D * !RN)	-0.00000	-0.00000	0.00000
	(!D * !RN)	-0.00001	-0.00001	0.00000
	(!D * !RN)	0.00224	0.00232	0.00262

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7R	(D * RN)	0.00364	0.00373	0.00404
	(D * RN)	-0.00001	-0.00000	0.00000
	(D * RN)	0.00008	0.00008	0.00009
	(D * RN)	0.00297	0.00306	0.00336
	(D * !RN)	0.00296	0.00305	0.00336
	(D * !RN)	-0.00006	-0.00006	-0.00005
	(D * !RN)	0.00010	0.00010	0.00010
	(D * !RN)	0.00210	0.00219	0.00250
	(!D * RN)	0.00378	0.00390	0.00429
	(!D * RN)	0.00000	0.00001	0.00002
	(!D * RN)	0.00000	0.00000	0.00000
	(!D * RN)	0.00310	0.00321	0.00360
	(!D * !RN)	0.00234	0.00244	0.00277
	(!D * !RN)	0.00000	0.00000	0.00001
	(!D * !RN)	0.00001	0.00001	0.00001
	(!D * !RN)	0.00168	0.00177	0.00210

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7R	(CK * RN)	0.00005	0.00015	0.00053
	(CK * RN)	0.00003	0.00003	0.00003
	(CK * RN)	-0.00003	-0.00003	-0.00003
	(CK * RN)	0.00070	0.00080	0.00118
	(CK * !RN)	0.00005	0.00015	0.00053
	(CK * !RN)	0.00003	0.00003	0.00003
	(CK * !RN)	-0.00003	-0.00003	-0.00003
	(CK * !RN)	0.00070	0.00081	0.00118
	(!CK * RN)	0.00139	0.00149	0.00187
	(!CK * RN)	0.00001	0.00002	0.00002
	(!CK * RN)	0.00003	0.00004	0.00005
	(!CK * RN)	0.00203	0.00214	0.00251
	(!CK * !RN)	0.00072	0.00082	0.00119
	(!CK * !RN)	-0.00007	-0.00007	-0.00006
	(!CK * !RN)	0.00009	0.00010	0.00011
	(!CK * !RN)	0.00110	0.00120	0.00157

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7R	(CK * RN)	0.00077	0.00089	0.00130
	(CK * RN)	-0.00003	-0.00003	-0.00003
	(CK * RN)	0.00003	0.00003	0.00003
	(CK * RN)	0.00012	0.00024	0.00065
	(CK * !RN)	0.00077	0.00089	0.00130
	(CK * !RN)	-0.00003	-0.00003	-0.00003
	(CK * !RN)	0.00003	0.00003	0.00003
	(CK * !RN)	0.00012	0.00024	0.00065
	(!CK * RN)	0.00221	0.00232	0.00273
	(!CK * RN)	-0.00002	-0.00002	-0.00001
	(!CK * RN)	-0.00005	-0.00004	-0.00003
	(!CK * RN)	0.00158	0.00169	0.00209
	(!CK * !RN)	0.00135	0.00147	0.00189
	(!CK * !RN)	0.00006	0.00007	0.00007
	(!CK * !RN)	-0.00011	-0.00010	-0.00009
	(!CK * !RN)	0.00098	0.00110	0.00151

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7R	(CK * D)	-0.00029	-0.00029	-0.00028
	(CK * D)	-0.00001	-0.00001	0.00000
	(CK * D)	0.00001	0.00001	0.00002
	(CK * D)	0.00042	0.00043	0.00044
	(CK * !D)	-0.00029	-0.00029	-0.00029
	(CK * !D)	-0.00001	-0.00000	0.00001
	(CK * !D)	0.00000	0.00001	0.00001
	(CK * !D)	0.00044	0.00044	0.00045
	(!CK * D)	0.00025	0.00030	0.00051
	(!CK * D)	0.00008	0.00008	0.00009
	(!CK * D)	-0.00008	-0.00008	-0.00008
	(!CK * D)	0.00128	0.00134	0.00154
	(!CK * !D)	-0.00034	-0.00034	-0.00033
	(!CK * !D)	-0.00001	-0.00000	0.00000
	(!CK * !D)	0.00001	0.00001	0.00001
	(!CK * !D)	0.00038	0.00039	0.00040

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFRQNX2H7R	(CK * D)	0.00029	0.00030	0.00031
	(CK * D)	0.00000	0.00001	0.00001
	(CK * D)	-0.00002	-0.00001	-0.00001
	(CK * D)	-0.00043	-0.00042	-0.00042
	(CK * !D)	0.00029	0.00029	0.00030
	(CK * !D)	0.00000	0.00001	0.00002
	(CK * !D)	-0.00001	-0.00001	0.00000
	(CK * !D)	-0.00043	-0.00042	-0.00040
	(!CK * D)	0.00112	0.00121	0.00154
	(!CK * D)	-0.00009	-0.00008	-0.00008
	(!CK * D)	0.00008	0.00008	0.00008
	(!CK * D)	0.00009	0.00018	0.00051
	(!CK * !D)	0.00034	0.00034	0.00036
	(!CK * !D)	-0.00000	0.00001	0.00001
	(!CK * !D)	-0.00001	-0.00001	-0.00001
	(!CK * !D)	-0.00038	-0.00038	-0.00037

DFFRQX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear, Single Output
Q = !RN ? 0 : rising (CK) ? D : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	1	0
R	1	1	1
x	x	0	0
x	x	1	IQ

Footprint

Cell Name	Area
DFFRQX0P5H7R	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFRQX0P5H7R	0.00090	0.00097	0.00141	0.05966

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFRQX0P5H7R	0.00000	0.87463	1.33054

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX0P5H7R	CK->Q (RR)	RN	0.09523	0.25364	0.61731

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX0P5H7R	CK->Q (RF)	RN	0.07871	0.21263	0.51060
	RN->Q (FF)	(CK * D)	0.03940	0.16937	0.47458
	RN->Q (FF)	(CK * !D)	0.03940	0.16936	0.47402
	RN->Q (FF)	(!CK * D)	0.04768	0.18528	0.50270
	RN->Q (FF)	(!CK * !D)	0.04991	0.18840	0.50843

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRQX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX0P5H7R	**hold**	**CK (R)**	-0.03606	0.01493	0.07882
	setup	**CK (R)**	-0.04681	0.02742	0.09117

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX0P5H7R	**hold**	**CK (R)**	-0.09929	-0.03734	0.00444
	setup	**CK (R)**	0.01654	0.06030	0.12844

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX0P5H7R	**recovery**	**CK (R)**	-0.11365	-0.00738	0.16428
	removal	**CK (R)**	-0.03288	0.04830	0.13246

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRQX0P5H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX0P5H7R	CK	RN	0.00332	0.00347	0.00398
	CK	RN	0.00001	0.00002	0.00002
	CK	RN	-0.00002	-0.00000	0.00001
	CK	RN	0.00406	0.00424	0.00473

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX0P5H7R	CK	RN	0.00333	0.00349	0.00389
	CK	RN	-0.00002	-0.00002	-0.00001
	CK	RN	-0.00001	0.00000	0.00002
	CK	RN	0.00394	0.00407	0.00449
	RN	(CK * D)	0.00354	0.00369	0.00421
	RN	(CK * D)	-0.00008	-0.00003	-0.00002
	RN	(CK * D)	-0.00005	-0.00004	0.00001
	RN	(CK * D)	0.00257	0.00275	0.00328
	RN	(CK * !D)	0.00354	0.00369	0.00421
	RN	(CK * !D)	-0.00003	-0.00003	0.00002
	RN	(CK * !D)	-0.00005	-0.00004	0.00001
	RN	(CK * !D)	0.00257	0.00275	0.00328
	RN	(!CK * D)	-0.00063	0.00324	0.00415
	RN	(!CK * D)	-0.00020	-0.00003	0.00634
	RN	(!CK * D)	0.00014	0.00015	0.00033
	RN	(!CK * D)	0.00174	0.00204	0.00415
	RN	(!CK * !D)	0.00221	0.00232	0.00273
	RN	(!CK * !D)	-0.00006	-0.00005	-0.00002
	RN	(!CK * !D)	0.00003	0.00003	0.00007
	RN	(!CK * !D)	0.00123	0.00137	0.00178

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7R	0.00234	0.00243	0.00280
	0.00007	0.00007	0.00008
	0.00000	0.00000	0.00000
	0.00323	0.00333	0.00370

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7R	0.00399	0.00413	0.00460
	-0.00000	0.00001	0.00003
	0.00000	0.00000	0.00000
	0.00329	0.00342	0.00389

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7R	0.00160	0.00173	0.00222
	0.00002	0.00003	0.00003
	0.00001	0.00002	0.00003
	0.00236	0.00250	0.00299

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7R	0.00244	0.00259	0.00312
	-0.00003	-0.00002	-0.00002
	-0.00003	-0.00002	-0.00001
	0.00168	0.00183	0.00235

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7R	0.00027	0.00035	0.00062
	0.00009	0.00010	0.00011
	-0.00012	-0.00011	-0.00011
	0.00145	0.00153	0.00181

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX0P5H7R	0.00125	0.00138	0.00180
	-0.00011	-0.00010	-0.00009
	0.00011	0.00011	0.00012
	0.00008	0.00020	0.00063

DFFRQX1H7R

Cell Description

D Flip-Flop with Async Clear, Single Output
Q = !RN ? 0 : rising (CK) ? D : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	1	0
R	1	1	1
x	x	0	0
x	x	1	IQ

Footprint

Cell Name	Area
DFFRQX1H7R	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFRQX1H7R	0.00090	0.00103	0.00141	0.07054

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFRQX1H7R	0.00000	0.92262	1.41678

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX1H7R	CK->Q (RR)	RN	0.09419	0.25372	0.61868

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX1H7R	CK->Q (RF)	RN	0.07857	0.21451	0.51555
	RN->Q (FF)	(CK * D)	0.03935	0.17120	0.47949
	RN->Q (FF)	(CK * !D)	0.03935	0.17120	0.47945
	RN->Q (FF)	(!CK * D)	0.04819	0.18804	0.50989
	RN->Q (FF)	(!CK * !D)	0.05044	0.19118	0.51532

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRQX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX1H7R	**hold**	**CK (R)**	-0.02892	0.01872	0.07872
	setup	**CK (R)**	-0.04893	0.02433	0.08504

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX1H7R	**hold**	**CK (R)**	-0.09085	-0.03275	0.00496
	setup	**CK (R)**	0.01459	0.05610	0.12379

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX1H7R	**recovery**	**CK (R)**	-0.11148	-0.00646	0.17146
	removal	**CK (R)**	-0.03487	0.04671	0.13174

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRQX1H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX1H7R	CK	RN	0.00338	0.00353	0.00406
	CK	RN	0.00001	0.00001	0.00001
	CK	RN	-0.00003	-0.00000	0.00000
	CK	RN	0.00414	0.00429	0.00478

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX1H7R	CK	RN	0.00345	0.00358	0.00399
	CK	RN	-0.00001	-0.00001	-0.00001
	CK	RN	0.00000	0.00000	0.00003
	CK	RN	0.00404	0.00418	0.00459
	RN	(CK * D)	0.00363	0.00378	0.00433
	RN	(CK * D)	-0.00007	-0.00003	-0.00003
	RN	(CK * D)	-0.00006	-0.00004	-0.00003
	RN	(CK * D)	0.00269	0.00284	0.00340
	RN	(CK * !D)	0.00361	0.00378	0.00433
	RN	(CK * !D)	-0.00007	-0.00003	0.00002
	RN	(CK * !D)	-0.00009	-0.00004	-0.00003
	RN	(CK * !D)	0.00269	0.00284	0.00340
	RN	(!CK * D)	0.00317	0.00341	0.00428
	RN	(!CK * D)	-0.00020	-0.00016	-0.00013
	RN	(!CK * D)	0.00014	0.00015	0.00015
	RN	(!CK * D)	0.00185	0.00209	0.00297
	RN	(!CK * !D)	0.00230	0.00242	0.00287
	RN	(!CK * !D)	-0.00005	-0.00004	-0.00001
	RN	(!CK * !D)	-0.00000	0.00003	0.00005
	RN	(!CK * !D)	0.00134	0.00147	0.00192

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7R	0.00233	0.00242	0.00279
	0.00007	0.00007	0.00008
	0.00000	0.00000	0.00000
	0.00321	0.00332	0.00368

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7R	0.00401	0.00414	0.00462
	0.00000	0.00001	0.00002
	0.00000	0.00000	0.00000
	0.00331	0.00344	0.00391

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7R	0.00156	0.00172	0.00231
	0.00003	0.00003	0.00004
	0.00000	0.00001	0.00002
	0.00239	0.00255	0.00314

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7R	0.00249	0.00266	0.00329
	-0.00004	-0.00003	-0.00002
	-0.00002	-0.00001	-0.00000
	0.00167	0.00184	0.00246

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7R	0.00028	0.00035	0.00063
	0.00009	0.00011	0.00011
	-0.00011	-0.00011	-0.00011
	0.00146	0.00154	0.00182

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX1H7R	0.00126	0.00138	0.00180
	-0.00011	-0.00011	-0.00009
	0.00011	0.00011	0.00011
	0.00008	0.00020	0.00062

DFFRQX2H7R

Cell Description

D Flip-Flop with Async Clear, Single Output
Q = !RN ? 0 : rising (CK) ? D : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	1	0
R	1	1	1
x	x	0	0
x	x	1	IQ

Footprint

Cell Name	Area
DFFRQX2H7R	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFRQX2H7R	0.00102	0.00100	0.00140	0.08121

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFRQX2H7R	0.00000	0.97823	1.52111

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX2H7R	CK->Q (RR)	RN	0.08887	0.24661	0.60704

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRQX2H7R	CK->Q (RF)	RN	0.07918	0.21689	0.51674
	RN->Q (FF)	(CK * D)	0.04288	0.17874	0.49672
	RN->Q (FF)	(CK * !D)	0.04288	0.17874	0.49667
	RN->Q (FF)	(!CK * D)	0.05022	0.19226	0.52150
	RN->Q (FF)	(!CK * !D)	0.05249	0.19548	0.52712

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRQX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX2H7R	**hold**	**CK (R)**	-0.02815	0.01579	0.06989
	setup	**CK (R)**	-0.04079	0.02822	0.08547

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX2H7R	**hold**	**CK (R)**	-0.10194	-0.03883	0.00105
	setup	**CK (R)**	0.02460	0.06757	0.14161

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRQX2H7R	**recovery**	**CK (R)**	-0.09937	0.00249	0.19180
	removal	**CK (R)**	-0.03814	0.03901	0.11840

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRQX2H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX2H7R	CK	RN	0.00358	0.00375	0.00439
	CK	RN	0.00001	0.00001	0.00001
	CK	RN	-0.00001	-0.00000	0.00000
	CK	RN	0.00441	0.00459	0.00516

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRQX2H7R	CK	RN	0.00358	0.00374	0.00423
	CK	RN	-0.00001	-0.00001	-0.00001
	CK	RN	0.00000	0.00000	0.00001
	CK	RN	0.00428	0.00444	0.00494
	RN	(CK * D)	0.00364	0.00380	0.00438
	RN	(CK * D)	-0.00005	-0.00001	-0.00000
	RN	(CK * D)	-0.00007	-0.00005	-0.00000
	RN	(CK * D)	0.00274	0.00289	0.00348
	RN	(CK * !D)	0.00364	0.00380	0.00438
	RN	(CK * !D)	-0.00003	-0.00001	-0.00001
	RN	(CK * !D)	-0.00006	-0.00005	-0.00003
	RN	(CK * !D)	0.00272	0.00289	0.00348
	RN	(!CK * D)	0.00323	0.00348	0.00437
	RN	(!CK * D)	-0.00019	-0.00014	-0.00010
	RN	(!CK * D)	0.00014	0.00015	0.00016
	RN	(!CK * D)	0.00191	0.00219	0.00308
	RN	(!CK * !D)	0.00236	0.00252	0.00305
	RN	(!CK * !D)	-0.00009	-0.00003	-0.00001
	RN	(!CK * !D)	0.00001	0.00002	0.00007
	RN	(!CK * !D)	0.00141	0.00158	0.00211

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7R	0.00234	0.00246	0.00291
	0.00006	0.00006	0.00007
	0.00000	0.00000	0.00000
	0.00332	0.00344	0.00389

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7R	0.00411	0.00426	0.00479
	0.00001	0.00002	0.00003
	0.00000	0.00000	0.00000
	0.00333	0.00347	0.00401

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7R	0.00155	0.00170	0.00224
	0.00001	0.00002	0.00002
	0.00000	0.00001	0.00002
	0.00234	0.00249	0.00303

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7R	0.00241	0.00257	0.00314
	-0.00002	-0.00002	-0.00001
	-0.00002	-0.00001	-0.00000
	0.00163	0.00179	0.00235

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7R	0.00021	0.00036	0.00061
	0.00008	0.00011	0.00021
	-0.00011	-0.00011	-0.00010
	0.00149	0.00155	0.00178

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRQX2H7R	0.00121	0.00131	0.00167
	-0.00010	-0.00009	-0.00008
	0.00011	0.00011	0.00011
	0.00004	0.00015	0.00051

DFFRX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear
Q = !RN ? 0 : rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	RN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFRX0P5H7R	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	**D**	**RN**	**Q**	**QN**
DFFRX0P5H7R	0.00085	0.00075	0.00103	0.05955	0.05966

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
DFFRX0P5H7R	0.00000	1.04739	1.29554

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX0P5H7R	CK->Q (RR)	RN	0.12873	0.27979	0.64648

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX0P5H7R	CK->Q (RF)	RN	0.12572	0.25197	0.54625
	RN->Q (FF)	(CK * D)	0.08704	0.20779	0.49715
	RN->Q (FF)	(CK * !D)	0.08704	0.20780	0.49715
	RN->Q (FF)	(!CK * D)	0.08048	0.20050	0.48901
	RN->Q (FF)	(!CK * !D)	0.07969	0.19938	0.48708

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX0P5H7R	CK->QN (RR)	RN	0.10071	0.25845	0.62695
	RN->QN (FR)	(CK * D)	0.06154	0.21459	0.57861
	RN->QN (FR)	(CK * !D)	0.06154	0.21459	0.57861
	RN->QN (FR)	(!CK * D)	0.05701	0.20481	0.56571
	RN->QN (FR)	(!CK * !D)	0.05642	0.20371	0.56371

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX0P5H7R	CK->QN (RF)	RN	0.09650	0.24427	0.55512

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX0P5H7R	**hold**	**CK (R)**	-0.05920	-0.01636	0.01853
	setup	**CK (R)**	0.00185	0.04948	0.12247

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX0P5H7R	**hold**	**CK (R)**	-0.05570	0.02416	0.10108
	setup	**CK (R)**	-0.07728	0.01843	0.13748

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX0P5H7R	**recovery**	**CK (R)**	-0.03305	0.02991	0.09242
	removal	**CK (R)**	0.05517	0.10269	0.18009

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRX0P5H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX0P5H7R	CK	RN	0.00214	0.00221	0.00244
	CK	RN	-0.00003	-0.00001	0.00000
	CK	RN	0.00001	0.00002	0.00004
	CK	RN	0.00234	0.00242	0.00266

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX0P5H7R	CK	RN	0.00209	0.00218	0.00241
	CK	RN	0.00000	0.00001	0.00003
	CK	RN	-0.00004	-0.00002	-0.00001
	CK	RN	0.00247	0.00255	0.00280
	RN	(CK * D)	0.00226	0.00237	0.00264
	RN	(CK * D)	-0.00001	0.00001	0.00002
	RN	(CK * D)	-0.00002	0.00000	0.00002
	RN	(CK * D)	0.00192	0.00204	0.00231
	RN	(CK * !D)	0.00226	0.00237	0.00264
	RN	(CK * !D)	-0.00001	0.00001	0.00003
	RN	(CK * !D)	-0.00002	0.00000	0.00002
	RN	(CK * !D)	0.00192	0.00204	0.00231
	RN	(!CK * D)	0.00159	0.00170	0.00199
	RN	(!CK * D)	0.00001	0.00003	0.00004
	RN	(!CK * D)	-0.00006	-0.00003	-0.00001
	RN	(!CK * D)	0.00131	0.00143	0.00172
	RN	(!CK * !D)	0.00160	0.00170	0.00199
	RN	(!CK * !D)	0.00001	0.00003	0.00004
	RN	(!CK * !D)	-0.00005	-0.00003	-0.00001
	RN	(!CK * !D)	0.00131	0.00142	0.00171

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX0P5H7R	CK	RN	0.00208	0.00218	0.00242
	CK	RN	0.00000	0.00001	0.00003
	CK	RN	-0.00004	-0.00002	-0.00001
	CK	RN	0.00248	0.00255	0.00280
	RN	(CK * D)	0.00226	0.00237	0.00264
	RN	(CK * D)	-0.00001	0.00001	0.00003
	RN	(CK * D)	-0.00002	0.00000	0.00001
	RN	(CK * D)	0.00193	0.00204	0.00231
	RN	(CK * !D)	0.00226	0.00237	0.00264
	RN	(CK * !D)	-0.00002	0.00001	0.00003
	RN	(CK * !D)	-0.00002	0.00000	0.00000
	RN	(CK * !D)	0.00194	0.00204	0.00231
	RN	(!CK * D)	0.00159	0.00170	0.00200
	RN	(!CK * D)	0.00001	0.00003	0.00005
	RN	(!CK * D)	-0.00005	-0.00003	-0.00001
	RN	(!CK * D)	0.00131	0.00143	0.00173
	RN	(!CK * !D)	0.00159	0.00170	0.00199
	RN	(!CK * !D)	-0.00000	0.00002	0.00005
	RN	(!CK * !D)	-0.00003	-0.00003	-0.00001
	RN	(!CK * !D)	0.00131	0.00142	0.00172

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX0P5H7R	CK	RN	0.00213	0.00221	0.00242
	CK	RN	-0.00003	-0.00001	0.00000
	CK	RN	0.00001	0.00002	0.00004
	CK	RN	0.00236	0.00242	0.00264

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7R	0.00316	0.00327	0.00364
	0.00000	0.00000	0.00000
	0.00003	0.00004	0.00004
	0.00366	0.00377	0.00415

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7R	0.00424	0.00434	0.00470
	0.00000	0.00000	0.00000
	0.00006	0.00007	0.00007
	0.00353	0.00363	0.00398

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7R	0.00121	0.00127	0.00152
	0.00002	0.00003	0.00004
	-0.00005	-0.00004	-0.00004
	0.00183	0.00190	0.00214

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7R	0.00179	0.00186	0.00212
	-0.00003	-0.00003	-0.00002
	0.00004	0.00004	0.00005
	0.00117	0.00123	0.00150

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7R	0.00105	0.00119	0.00169
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00165	0.00179	0.00230

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX0P5H7R	0.00092	0.00107	0.00160
	0.00000	0.00000	0.00000
	0.00002	0.00003	0.00003
	0.00011	0.00026	0.00080

DFFRX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear
Q = !RN ? 0 : rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	RN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFRX1H7R	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	**D**	**RN**	**Q**	**QN**
DFFRX1H7R	0.00085	0.00075	0.00103	0.07082	0.07071

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
DFFRX1H7R	0.00000	1.11211	1.37546

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX1H7R	CK->Q (RR)	RN	0.12717	0.27903	0.64700

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX1H7R	CK->Q (RF)	RN	0.12481	0.25259	0.55105
	RN->Q (FF)	(CK * D)	0.08480	0.20719	0.50038
	RN->Q (FF)	(CK * !D)	0.08480	0.20719	0.50038
	RN->Q (FF)	(!CK * D)	0.07839	0.20000	0.49230
	RN->Q (FF)	(!CK * !D)	0.07772	0.19901	0.49055

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX1H7R	CK->QN (RR)	RN	0.09954	0.25793	0.62757
	RN->QN (FR)	(CK * D)	0.05937	0.21288	0.57803
	RN->QN (FR)	(CK * !D)	0.05937	0.21288	0.57786
	RN->QN (FR)	(!CK * D)	0.05499	0.20341	0.56505
	RN->QN (FR)	(!CK * !D)	0.05452	0.20246	0.56339

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX1H7R	CK->QN (RF)	RN	0.09544	0.24504	0.55916

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX1H7R	**hold**	**CK (R)**	-0.05974	-0.01695	0.01711
	setup	**CK (R)**	0.00106	0.04929	0.12041

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX1H7R	**hold**	**CK (R)**	-0.05628	0.02485	0.10154
	setup	**CK (R)**	-0.07613	0.01819	0.13834

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX1H7R	**recovery**	**CK (R)**	-0.03534	0.02872	0.09221
	removal	**CK (R)**	0.05231	0.10169	0.18016

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRX1H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX1H7R	CK	RN	0.00222	0.00229	0.00250
	CK	RN	-0.00003	-0.00001	0.00000
	CK	RN	0.00003	0.00003	0.00004
	CK	RN	0.00241	0.00250	0.00271

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX1H7R	CK	RN	0.00218	0.00227	0.00252
	CK	RN	0.00000	0.00001	0.00003
	CK	RN	-0.00004	-0.00003	-0.00002
	CK	RN	0.00257	0.00265	0.00290
	RN	(CK * D)	0.00235	0.00246	0.00274
	RN	(CK * D)	0.00001	0.00001	0.00004
	RN	(CK * D)	-0.00002	-0.00000	0.00003
	RN	(CK * D)	0.00202	0.00214	0.00242
	RN	(CK * !D)	0.00235	0.00246	0.00274
	RN	(CK * !D)	0.00001	0.00001	0.00004
	RN	(CK * !D)	-0.00002	-0.00000	0.00002
	RN	(CK * !D)	0.00203	0.00214	0.00242
	RN	(!CK * D)	0.00166	0.00177	0.00206
	RN	(!CK * D)	0.00003	0.00003	0.00004
	RN	(!CK * D)	-0.00005	-0.00003	0.00019
	RN	(!CK * D)	0.00120	0.00149	0.00180
	RN	(!CK * !D)	0.00166	0.00177	0.00206
	RN	(!CK * !D)	0.00001	0.00003	0.00004
	RN	(!CK * !D)	-0.00005	-0.00003	-0.00001
	RN	(!CK * !D)	0.00138	0.00149	0.00178

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX1H7R	CK	RN	0.00218	0.00227	0.00252
	CK	RN	0.00000	0.00001	0.00003
	CK	RN	-0.00004	-0.00003	-0.00000
	CK	RN	0.00256	0.00265	0.00291
	RN	(CK * D)	0.00238	0.00246	0.00274
	RN	(CK * D)	-0.00001	0.00001	0.00001
	RN	(CK * D)	-0.00003	-0.00000	0.00001
	RN	(CK * D)	0.00202	0.00214	0.00242
	RN	(CK * !D)	0.00234	0.00246	0.00274
	RN	(CK * !D)	-0.00001	0.00001	0.00004
	RN	(CK * !D)	-0.00003	-0.00000	0.00001
	RN	(CK * !D)	0.00202	0.00213	0.00241
	RN	(!CK * D)	0.00164	0.00177	0.00206
	RN	(!CK * D)	0.00000	0.00003	0.00005
	RN	(!CK * D)	-0.00006	-0.00004	-0.00000
	RN	(!CK * D)	0.00137	0.00150	0.00179
	RN	(!CK * !D)	0.00165	0.00177	0.00206
	RN	(!CK * !D)	-0.00000	0.00003	0.00005
	RN	(!CK * !D)	-0.00006	-0.00003	-0.00003
	RN	(!CK * !D)	0.00139	0.00150	0.00179

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX1H7R	CK	RN	0.00222	0.00229	0.00250
	CK	RN	-0.00002	-0.00001	0.00000
	CK	RN	0.00000	0.00003	0.00004
	CK	RN	0.00241	0.00250	0.00271

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7R	0.00324	0.00334	0.00372
	0.00000	0.00000	0.00000
	0.00003	0.00004	0.00005
	0.00373	0.00385	0.00423

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7R	0.00427	0.00437	0.00473
	0.00000	0.00000	0.00000
	0.00006	0.00006	0.00007
	0.00356	0.00366	0.00402

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7R	0.00124	0.00130	0.00155
	0.00002	0.00003	0.00003
	-0.00004	-0.00004	-0.00004
	0.00186	0.00192	0.00216

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7R	0.00180	0.00187	0.00214
	-0.00003	-0.00003	-0.00002
	0.00004	0.00004	0.00004
	0.00119	0.00126	0.00153

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7R	0.00109	0.00123	0.00173
	0.00000	0.00000	0.00000
	-0.00000	0.00001	0.00001
	0.00169	0.00183	0.00233

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX1H7R	0.00092	0.00107	0.00160
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00003
	0.00011	0.00026	0.00079

DFFRX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear
Q = !RN ? 0 : rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	RN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFRX2H7R	10.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	**D**	**RN**	**Q**	**QN**
DFFRX2H7R	0.00096	0.00080	0.00109	0.08913	0.08103

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
DFFRX2H7R	0.00000	1.29383	1.56903

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX2H7R	CK->Q (RR)	RN	0.12672	0.27736	0.64295

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX2H7R	CK->Q (RF)	RN	0.11886	0.24448	0.53580
	RN->Q (FF)	(CK * D)	0.08525	0.20564	0.49320
	RN->Q (FF)	(CK * !D)	0.08525	0.20564	0.49321
	RN->Q (FF)	(!CK * D)	0.07807	0.19775	0.48426
	RN->Q (FF)	(!CK * !D)	0.07747	0.19686	0.48274

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX2H7R	CK->QN (RR)	RN	0.09056	0.24688	0.61145
	RN->QN (FR)	(CK * D)	0.05653	0.20808	0.56906
	RN->QN (FR)	(CK * !D)	0.05653	0.20808	0.56906
	RN->QN (FR)	(!CK * D)	0.05189	0.19859	0.55666
	RN->QN (FR)	(!CK * !D)	0.05152	0.19773	0.55553

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX2H7R	CK->QN (RF)	RN	0.08995	0.23796	0.55022

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX2H7R	**hold**	**CK (R)**	-0.06077	-0.01785	0.01573
	setup	**CK (R)**	0.00550	0.04927	0.11923

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX2H7R	**hold**	**CK (R)**	-0.06368	0.01551	0.08713
	setup	**CK (R)**	-0.06389	0.02590	0.14623

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX2H7R	**recovery**	**CK (R)**	-0.03757	0.02380	0.08219
	removal	**CK (R)**	0.05133	0.09535	0.16935

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRX2H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX2H7R	CK	RN	0.00244	0.00253	0.00280
	CK	RN	-0.00003	-0.00001	0.00000
	CK	RN	0.00003	0.00003	0.00003
	CK	RN	0.00270	0.00280	0.00307

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX2H7R	CK	RN	0.00243	0.00254	0.00284
	CK	RN	0.00000	0.00001	0.00003
	CK	RN	-0.00003	-0.00003	-0.00002
	CK	RN	0.00285	0.00298	0.00328
	RN	(CK * D)	0.00262	0.00276	0.00310
	RN	(CK * D)	-0.00001	0.00002	0.00005
	RN	(CK * D)	-0.00002	-0.00000	0.00001
	RN	(CK * D)	0.00229	0.00242	0.00276
	RN	(CK * !D)	0.00262	0.00276	0.00310
	RN	(CK * !D)	-0.00000	0.00002	0.00005
	RN	(CK * !D)	-0.00002	-0.00000	0.00002
	RN	(CK * !D)	0.00228	0.00242	0.00276
	RN	(!CK * D)	0.00192	0.00205	0.00240
	RN	(!CK * D)	0.00003	0.00003	0.00004
	RN	(!CK * D)	-0.00004	-0.00003	-0.00001
	RN	(!CK * D)	0.00162	0.00176	0.00212
	RN	(!CK * !D)	0.00192	0.00205	0.00240
	RN	(!CK * !D)	0.00002	0.00002	0.00004
	RN	(!CK * !D)	-0.00006	-0.00003	-0.00003
	RN	(!CK * !D)	0.00161	0.00175	0.00211

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX2H7R	CK	RN	0.00243	0.00254	0.00285
	CK	RN	0.00000	0.00001	0.00004
	CK	RN	-0.00005	-0.00003	-0.00000
	CK	RN	0.00286	0.00298	0.00330
	RN	(CK * D)	0.00262	0.00276	0.00309
	RN	(CK * D)	-0.00001	0.00002	0.00004
	RN	(CK * D)	-0.00004	-0.00000	0.00000
	RN	(CK * D)	0.00229	0.00242	0.00275
	RN	(CK * !D)	0.00262	0.00276	0.00309
	RN	(CK * !D)	-0.00000	0.00002	0.00005
	RN	(CK * !D)	-0.00004	-0.00000	0.00002
	RN	(CK * !D)	0.00229	0.00242	0.00275
	RN	(!CK * D)	0.00189	0.00205	0.00241
	RN	(!CK * D)	0.00000	0.00003	0.00006
	RN	(!CK * D)	-0.00005	-0.00004	-0.00003
	RN	(!CK * D)	0.00162	0.00176	0.00214
	RN	(!CK * !D)	0.00189	0.00205	0.00241
	RN	(!CK * !D)	-0.00000	0.00003	0.00006
	RN	(!CK * !D)	-0.00004	-0.00003	0.00001
	RN	(!CK * !D)	0.00162	0.00175	0.00213

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX2H7R	CK	RN	0.00241	0.00253	0.00283
	CK	RN	-0.00003	-0.00001	0.00000
	CK	RN	0.00001	0.00003	0.00005
	CK	RN	0.00269	0.00280	0.00309

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7R	0.00336	0.00350	0.00399
	-0.00000	-0.00000	0.00000
	0.00002	0.00003	0.00004
	0.00398	0.00412	0.00461

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7R	0.00456	0.00469	0.00516
	0.00000	0.00000	0.00000
	0.00005	0.00006	0.00007
	0.00375	0.00388	0.00435

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7R	0.00124	0.00131	0.00156
	0.00002	0.00002	0.00002
	-0.00003	-0.00003	-0.00003
	0.00188	0.00195	0.00219

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7R	0.00188	0.00195	0.00221
	-0.00002	-0.00002	-0.00002
	0.00003	0.00003	0.00004
	0.00125	0.00132	0.00158

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7R	0.00110	0.00126	0.00185
	0.00000	0.00000	0.00000
	-0.00000	0.00001	0.00001
	0.00172	0.00189	0.00248

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX2H7R	0.00099	0.00117	0.00179
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00006
	0.00010	0.00030	0.00093

DFFRX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Clear
Q = !RN ? 0 : rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	RN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	0	1
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFRX3H7R	10.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	**D**	**RN**	**Q**	**QN**
DFFRX3H7R	0.00097	0.00078	0.00105	0.12653	0.12626

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
DFFRX3H7R	0.00000	1.49835	1.81018

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX3H7R	CK->Q (RR)	RN	0.13567	0.28548	0.65199

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX3H7R	CK->Q (RF)	RN	0.12294	0.25044	0.54793
	RN->Q (FF)	(CK * D)	0.08906	0.21171	0.50585
	RN->Q (FF)	(CK * !D)	0.08906	0.21172	0.50585
	RN->Q (FF)	(!CK * D)	0.08140	0.20345	0.49748
	RN->Q (FF)	(!CK * !D)	0.08097	0.20276	0.49542

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX3H7R	CK->QN (RR)	RN	0.09143	0.25043	0.61840
	RN->QN (FR)	(CK * D)	0.05722	0.21158	0.57590
	RN->QN (FR)	(CK * !D)	0.05722	0.21158	0.57591
	RN->QN (FR)	(!CK * D)	0.05265	0.20203	0.56355
	RN->QN (FR)	(!CK * !D)	0.05248	0.20141	0.56204

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFRX3H7R	CK->QN (RF)	RN	0.09358	0.24778	0.56558

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFRX3H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX3H7R	**hold**	**CK (R)**	-0.05685	-0.01527	0.01840
	setup	**CK (R)**	0.00296	0.04590	0.11460

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX3H7R	**hold**	**CK (R)**	-0.06311	0.01895	0.09285
	setup	**CK (R)**	-0.07083	0.02149	0.14033

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFRX3H7R	**recovery**	**CK (R)**	-0.04077	0.02083	0.08376
	removal	**CK (R)**	0.04889	0.09612	0.17056

Min Pulse Width (ns) for RN:

Cell Name	High	Low
DFFRX3H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX3H7R	CK	RN	0.00273	0.00283	0.00310
	CK	RN	-0.00003	-0.00001	0.00000
	CK	RN	0.00001	0.00003	0.00003
	CK	RN	0.00299	0.00309	0.00336

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX3H7R	CK	RN	0.00273	0.00285	0.00317
	CK	RN	0.00000	0.00001	0.00003
	CK	RN	-0.00003	-0.00003	-0.00001
	CK	RN	0.00315	0.00328	0.00360
	RN	(CK * D)	0.00292	0.00307	0.00341
	RN	(CK * D)	0.00002	0.00002	0.00004
	RN	(CK * D)	-0.00003	-0.00001	0.00003
	RN	(CK * D)	0.00261	0.00275	0.00309
	RN	(CK * !D)	0.00292	0.00307	0.00341
	RN	(CK * !D)	0.00000	0.00002	0.00004
	RN	(CK * !D)	-0.00005	-0.00001	0.00001
	RN	(CK * !D)	0.00260	0.00275	0.00309
	RN	(!CK * D)	0.00214	0.00231	0.00269
	RN	(!CK * D)	0.00001	0.00003	0.00006
	RN	(!CK * D)	-0.00005	-0.00004	-0.00003
	RN	(!CK * D)	0.00187	0.00203	0.00244
	RN	(!CK * !D)	0.00216	0.00231	0.00265
	RN	(!CK * !D)	0.00001	0.00003	0.00005
	RN	(!CK * !D)	-0.00003	-0.00003	-0.00003
	RN	(!CK * !D)	0.00187	0.00202	0.00236

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX3H7R	CK	RN	0.00272	0.00285	0.00320
	CK	RN	0.00000	0.00001	0.00004
	CK	RN	-0.00005	-0.00003	-0.00002
	CK	RN	0.00317	0.00329	0.00365
	RN	(CK * D)	0.00291	0.00307	0.00341
	RN	(CK * D)	-0.00001	0.00002	0.00007
	RN	(CK * D)	-0.00001	-0.00001	0.00003
	RN	(CK * D)	0.00259	0.00275	0.00309
	RN	(CK * !D)	0.00290	0.00307	0.00341
	RN	(CK * !D)	-0.00001	0.00002	0.00005
	RN	(CK * !D)	-0.00003	-0.00001	0.00003
	RN	(CK * !D)	0.00259	0.00275	0.00309
	RN	(!CK * D)	0.00215	0.00231	0.00268
	RN	(!CK * D)	-0.00001	0.00003	0.00007
	RN	(!CK * D)	-0.00005	-0.00004	-0.00002
	RN	(!CK * D)	0.00188	0.00203	0.00243
	RN	(!CK * !D)	0.00214	0.00231	0.00269
	RN	(!CK * !D)	-0.00001	0.00003	0.00006
	RN	(!CK * !D)	-0.00004	-0.00003	-0.00003
	RN	(!CK * !D)	0.00187	0.00202	0.00242

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFRX3H7R	CK	RN	0.00273	0.00283	0.00311
	CK	RN	-0.00003	-0.00001	0.00001
	CK	RN	0.00002	0.00003	0.00007
	CK	RN	0.00298	0.00309	0.00338

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7R	0.00355	0.00368	0.00416
	-0.00003	-0.00002	-0.00002
	0.00003	0.00003	0.00004
	0.00417	0.00431	0.00479

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7R	0.00455	0.00470	0.00525
	0.00005	0.00005	0.00006
	-0.00004	-0.00003	-0.00003
	0.00399	0.00413	0.00467

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7R	0.00146	0.00153	0.00180
	0.00002	0.00003	0.00003
	-0.00004	-0.00003	-0.00003
	0.00209	0.00216	0.00242

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7R	0.00191	0.00199	0.00227
	-0.00003	-0.00003	-0.00002
	0.00003	0.00003	0.00004
	0.00128	0.00137	0.00166

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7R	0.00129	0.00146	0.00204
	0.00000	0.00000	0.00000
	-0.00000	0.00001	0.00001
	0.00188	0.00205	0.00264

Passive power(pJ) for RN falling :

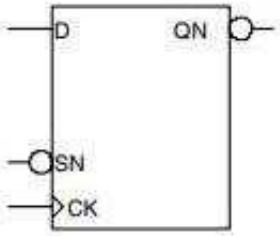
Cell Name	Power(pJ)		
	min	avg	max
DFFRX3H7R	0.00102	0.00119	0.00181
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00004
	0.00018	0.00035	0.00098

DFFSQNX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFSQN cell is a positive edge-triggered, static D-type flip-flop with asynchronous active-low set (SN). The cell has a single inverted output (QN).



Truth Table

INPUT			OUTPUT
CK	D	SN	QN
R	0	1	1
R	1	1	0
x	x	0	0
x	x	1	IQN

Footprint

Cell Name	Area
DFFSQNX1H7R	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	SN	QN
DFFSQNX1H7R	0.00084	0.00086	0.00072	0.05790

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSQNX1H7R	0.00000	0.92156	1.09538

Delay Information

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQNX1H7R	CK->QN (RR)	-	0.11898	0.26979	0.63230

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQNX1H7R	CK->QN (RF)	-	0.11624	0.23494	0.50660
	SN->QN (FF)	(CK * D)	0.09992	0.22036	0.50578
	SN->QN (FF)	(CK * !D)	0.09992	0.22036	0.50578
	SN->QN (FF)	(!CK * D)	0.09114	0.21041	0.49361
	SN->QN (FF)	(!CK * !D)	0.09278	0.21277	0.49769

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSQNX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX1H7R	**hold**	**CK (R)**	-0.02885	0.01576	0.07387
	setup	**CK (R)**	-0.04877	0.01486	0.06875

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX1H7R	**hold**	**CK (R)**	-0.10132	-0.04284	-0.00592
	setup	**CK (R)**	0.02522	0.07391	0.14947

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSQNX1H7R	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX1H7R	**hold**	**CK (R)**	-0.04302	0.01445	0.08763
	setup	**CK (R)**	-0.01068	0.04989	0.10832

Power Information

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQNX1H7R	CK	-	0.00314	0.00327	0.00364
	CK	-	-0.00005	-0.00005	-0.00003
	CK	-	0.00003	0.00006	0.00006
	CK	-	0.00358	0.00371	0.00407

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQNX1H7R	CK	-	0.00293	0.00307	0.00347
	CK	-	0.00003	0.00005	0.00005
	CK	-	-0.00006	-0.00006	-0.00003
	CK	-	0.00366	0.00380	0.00421
	SN	(CK * D)	0.00370	0.00382	0.00417
	SN	(CK * D)	0.00003	0.00003	0.00003
	SN	(CK * D)	-0.00001	-0.00001	-0.00001
	SN	(CK * D)	0.00324	0.00336	0.00371
	SN	(CK * !D)	0.00370	0.00382	0.00417
	SN	(CK * !D)	0.00003	0.00003	0.00003
	SN	(CK * !D)	-0.00001	-0.00001	-0.00001
	SN	(CK * !D)	0.00324	0.00336	0.00373
	SN	(!CK * D)	0.00255	0.00267	0.00303
	SN	(!CK * D)	0.00005	0.00008	0.00009
	SN	(!CK * D)	-0.00011	-0.00008	-0.00007
	SN	(!CK * D)	0.00220	0.00233	0.00271
	SN	(!CK * !D)	0.00255	0.00269	0.00306
	SN	(!CK * !D)	0.00007	0.00009	0.00012
	SN	(!CK * !D)	-0.00009	-0.00009	-0.00006
	SN	(!CK * !D)	0.00225	0.00237	0.00276

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7R	(D * SN)	0.00134	0.00143	0.00175
	(D * SN)	0.00000	0.00000	0.00000
	(D * SN)	-0.00001	-0.00000	0.00000
	(D * SN)	0.00192	0.00201	0.00234
	(D * !SN)	0.00130	0.00139	0.00171
	(D * !SN)	0.00000	0.00000	0.00001
	(D * !SN)	-0.00001	-0.00001	0.00000
	(D * !SN)	0.00189	0.00198	0.00231
	(!D * SN)	0.00148	0.00157	0.00190
	(!D * SN)	-0.00000	-0.00000	0.00000
	(!D * SN)	0.00000	0.00000	0.00000
	(!D * SN)	0.00207	0.00217	0.00250
	(!D * !SN)	0.00256	0.00266	0.00299
	(!D * !SN)	-0.00000	0.00000	0.00000
	(!D * !SN)	0.00003	0.00004	0.00005
	(!D * !SN)	0.00311	0.00320	0.00354

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7R	(D * SN)	0.00344	0.00352	0.00385
	(D * SN)	0.00000	0.00000	0.00000
	(D * SN)	0.00006	0.00006	0.00007
	(D * SN)	0.00276	0.00285	0.00317
	(D * !SN)	0.00217	0.00227	0.00263
	(D * !SN)	-0.00000	-0.00000	0.00000
	(D * !SN)	0.00000	0.00001	0.00001
	(D * !SN)	0.00158	0.00168	0.00204
	(!D * SN)	0.00301	0.00312	0.00353
	(!D * SN)	0.00005	0.00005	0.00006
	(!D * SN)	0.00000	0.00000	0.00000
	(!D * SN)	0.00252	0.00263	0.00303
	(!D * !SN)	0.00222	0.00233	0.00274
	(!D * !SN)	0.00007	0.00008	0.00008
	(!D * !SN)	-0.00005	-0.00004	-0.00003
	(!D * !SN)	0.00180	0.00191	0.00231

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7R	(CK * SN)	-0.00000	0.00015	0.00068
	(CK * SN)	0.00004	0.00004	0.00004
	(CK * SN)	-0.00004	-0.00003	-0.00003
	(CK * SN)	0.00065	0.00081	0.00134
	(CK * !SN)	-0.00000	0.00015	0.00068
	(CK * !SN)	0.00004	0.00004	0.00004
	(CK * !SN)	-0.00003	-0.00003	-0.00003
	(CK * !SN)	0.00066	0.00081	0.00134
	(!CK * SN)	0.00135	0.00150	0.00203
	(!CK * SN)	-0.00000	-0.00000	0.00000
	(!CK * SN)	0.00001	0.00002	0.00003
	(!CK * SN)	0.00192	0.00206	0.00259
	(!CK * !SN)	0.00144	0.00158	0.00211
	(!CK * !SN)	-0.00002	-0.00001	-0.00001
	(!CK * !SN)	0.00001	0.00001	0.00002
	(!CK * !SN)	0.00198	0.00214	0.00266

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7R	(CK * SN)	0.00077	0.00093	0.00151
	(CK * SN)	-0.00004	-0.00004	-0.00004
	(CK * SN)	0.00003	0.00003	0.00004
	(CK * SN)	0.00011	0.00028	0.00085
	(CK * !SN)	0.00077	0.00093	0.00151
	(CK * !SN)	-0.00004	-0.00004	-0.00004
	(CK * !SN)	0.00003	0.00003	0.00003
	(CK * !SN)	0.00011	0.00028	0.00085
	(!CK * SN)	0.00179	0.00196	0.00253
	(!CK * SN)	-0.00000	0.00000	0.00001
	(!CK * SN)	-0.00003	-0.00002	-0.00001
	(!CK * SN)	0.00123	0.00139	0.00196
	(!CK * !SN)	0.00108	0.00124	0.00181
	(!CK * !SN)	0.00007	0.00007	0.00007
	(!CK * !SN)	-0.00002	-0.00001	-0.00001
	(!CK * !SN)	0.00065	0.00081	0.00138

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7R	(CK * D)	0.00009	0.00017	0.00051
	(CK * D)	0.00002	0.00002	0.00003
	(CK * D)	-0.00002	-0.00002	-0.00002
	(CK * D)	0.00064	0.00073	0.00106
	(CK * !D)	0.00009	0.00017	0.00051
	(CK * !D)	0.00002	0.00002	0.00003
	(CK * !D)	-0.00002	-0.00002	-0.00002
	(CK * !D)	0.00064	0.00073	0.00106
	(!CK * D)	0.00009	0.00018	0.00051
	(!CK * D)	0.00002	0.00002	0.00002
	(!CK * D)	-0.00002	-0.00002	-0.00002
	(!CK * D)	0.00064	0.00073	0.00106
	(!CK * !D)	0.00084	0.00093	0.00126
	(!CK * !D)	0.00000	0.00000	0.00000
	(!CK * !D)	-0.00001	-0.00000	-0.00000
	(!CK * !D)	0.00126	0.00135	0.00168

Passive power(pJ) for SN falling (conditional):

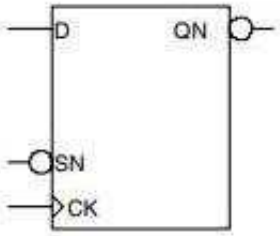
Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX1H7R	(CK * D)	0.00079	0.00089	0.00125
	(CK * D)	-0.00002	-0.00002	-0.00002
	(CK * D)	0.00002	0.00002	0.00002
	(CK * D)	0.00024	0.00034	0.00070
	(CK * !D)	0.00080	0.00090	0.00125
	(CK * !D)	-0.00002	-0.00002	-0.00002
	(CK * !D)	0.00002	0.00002	0.00002
	(CK * !D)	0.00024	0.00034	0.00070
	(!CK * D)	0.00079	0.00089	0.00125
	(!CK * D)	-0.00002	-0.00002	-0.00002
	(!CK * D)	0.00002	0.00002	0.00002
	(!CK * D)	0.00024	0.00034	0.00070
	(!CK * !D)	0.00080	0.00090	0.00126
	(!CK * !D)	0.00000	0.00000	0.00000
	(!CK * !D)	0.00002	0.00002	0.00002
	(!CK * !D)	0.00025	0.00035	0.00071

DFFSQNX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFSQN cell is a positive edge-triggered, static D-type flip-flop with asynchronous active-low set (SN). The cell has a single inverted output (QN).



Truth Table

INPUT			OUTPUT
CK	D	SN	QN
R	0	1	1
R	1	1	0
x	x	0	0
x	x	1	IQN

Footprint

Cell Name	Area
DFFSQNX2H7R	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	SN	QN
DFFSQNX2H7R	0.00085	0.00099	0.00075	0.08539

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSQNX2H7R	0.00000	1.05268	1.27784

Delay Information

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQNX2H7R	CK->QN (RR)	-	0.12069	0.27297	0.63704

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQNX2H7R	CK->QN (RF)	-	0.11809	0.23715	0.50626
	SN->QN (FF)	(CK * D)	0.09587	0.21635	0.49837
	SN->QN (FF)	(CK * !D)	0.09587	0.21635	0.49837
	SN->QN (FF)	(!CK * D)	0.08845	0.20781	0.48780
	SN->QN (FF)	(!CK * !D)	0.08965	0.20967	0.49116

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSQNX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX2H7R	**hold**	**CK (R)**	-0.01891	0.02254	0.07965
	setup	**CK (R)**	-0.05304	0.00764	0.05768

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX2H7R	**hold**	**CK (R)**	-0.09487	-0.03712	-0.00368
	setup	**CK (R)**	0.02059	0.06756	0.13986

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSQNX2H7R	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQNX2H7R	**hold**	**CK (R)**	-0.04529	0.01383	0.08655
	setup	**CK (R)**	-0.00879	0.04992	0.10967

Power Information

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQNX2H7R	CK	-	0.00338	0.00352	0.00391
	CK	-	-0.00008	-0.00005	-0.00002
	CK	-	0.00004	0.00007	0.00008
	CK	-	0.00381	0.00396	0.00433

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQNX2H7R	CK	-	0.00324	0.00339	0.00381
	CK	-	0.00002	0.00006	0.00009
	CK	-	-0.00008	-0.00007	-0.00004
	CK	-	0.00396	0.00413	0.00457
	SN	(CK * D)	0.00400	0.00417	0.00453
	SN	(CK * D)	0.00000	0.00004	0.00007
	SN	(CK * D)	-0.00004	-0.00002	-0.00000
	SN	(CK * D)	0.00356	0.00370	0.00408
	SN	(CK * !D)	0.00401	0.00417	0.00453
	SN	(CK * !D)	0.00000	0.00004	0.00007
	SN	(CK * !D)	-0.00004	-0.00002	-0.00001
	SN	(CK * !D)	0.00357	0.00370	0.00407
	SN	(!CK * D)	0.00287	0.00301	0.00339
	SN	(!CK * D)	0.00009	0.00009	0.00009
	SN	(!CK * D)	-0.00010	-0.00009	-0.00009
	SN	(!CK * D)	0.00253	0.00268	0.00309
	SN	(!CK * !D)	0.00289	0.00304	0.00342
	SN	(!CK * !D)	0.00007	0.00010	0.00011
	SN	(!CK * !D)	-0.00010	-0.00009	0.00030
	SN	(!CK * !D)	0.00222	0.00271	0.00312

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7R	(D * SN)	0.00134	0.00143	0.00175
	(D * SN)	0.00000	0.00000	0.00000
	(D * SN)	-0.00001	-0.00000	0.00000
	(D * SN)	0.00193	0.00201	0.00234
	(D * !SN)	0.00131	0.00139	0.00171
	(D * !SN)	0.00000	0.00000	0.00000
	(D * !SN)	-0.00001	-0.00001	0.00000
	(D * !SN)	0.00190	0.00199	0.00231
	(!D * SN)	0.00148	0.00158	0.00190
	(!D * SN)	-0.00001	-0.00000	0.00000
	(!D * SN)	0.00000	0.00000	0.00000
	(!D * SN)	0.00208	0.00217	0.00250
	(!D * !SN)	0.00256	0.00265	0.00299
	(!D * !SN)	-0.00000	0.00000	0.00001
	(!D * !SN)	0.00004	0.00004	0.00005
	(!D * !SN)	0.00310	0.00320	0.00354

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7R	(D * SN)	0.00347	0.00356	0.00388
	(D * SN)	0.00000	0.00000	0.00000
	(D * SN)	0.00006	0.00006	0.00007
	(D * SN)	0.00278	0.00287	0.00320
	(D * !SN)	0.00220	0.00230	0.00265
	(D * !SN)	-0.00000	-0.00000	0.00001
	(D * !SN)	0.00000	0.00001	0.00001
	(D * !SN)	0.00160	0.00170	0.00206
	(!D * SN)	0.00304	0.00315	0.00356
	(!D * SN)	0.00005	0.00005	0.00006
	(!D * SN)	0.00000	0.00000	0.00000
	(!D * SN)	0.00255	0.00266	0.00306
	(!D * !SN)	0.00224	0.00236	0.00276
	(!D * !SN)	0.00008	0.00008	0.00008
	(!D * !SN)	-0.00005	-0.00004	-0.00004
	(!D * !SN)	0.00182	0.00194	0.00234

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7R	(CK * SN)	-0.00003	0.00018	0.00092
	(CK * SN)	0.00005	0.00005	0.00005
	(CK * SN)	-0.00004	-0.00004	-0.00004
	(CK * SN)	0.00074	0.00096	0.00169
	(CK * !SN)	-0.00002	0.00018	0.00092
	(CK * !SN)	0.00005	0.00005	0.00005
	(CK * !SN)	-0.00004	-0.00004	-0.00003
	(CK * !SN)	0.00075	0.00096	0.00169
	(!CK * SN)	0.00134	0.00155	0.00228
	(!CK * SN)	0.00000	0.00000	0.00001
	(!CK * SN)	0.00000	0.00001	0.00002
	(!CK * SN)	0.00201	0.00222	0.00295
	(!CK * !SN)	0.00143	0.00163	0.00236
	(!CK * !SN)	-0.00002	-0.00001	-0.00000
	(!CK * !SN)	0.00000	0.00001	0.00002
	(!CK * !SN)	0.00207	0.00229	0.00302

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7R	(CK * SN)	0.00085	0.00107	0.00185
	(CK * SN)	-0.00005	-0.00005	-0.00005
	(CK * SN)	0.00004	0.00004	0.00004
	(CK * SN)	0.00007	0.00030	0.00108
	(CK * !SN)	0.00084	0.00107	0.00186
	(CK * !SN)	-0.00005	-0.00005	-0.00005
	(CK * !SN)	0.00004	0.00004	0.00004
	(CK * !SN)	0.00007	0.00030	0.00109
	(!CK * SN)	0.00187	0.00210	0.00288
	(!CK * SN)	-0.00000	-0.00000	0.00000
	(!CK * SN)	-0.00002	-0.00001	-0.00000
	(!CK * SN)	0.00120	0.00144	0.00221
	(!CK * !SN)	0.00116	0.00139	0.00216
	(!CK * !SN)	0.00006	0.00006	0.00006
	(!CK * !SN)	-0.00002	-0.00001	0.00000
	(!CK * !SN)	0.00063	0.00085	0.00163

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7R	(CK * D)	0.00008	0.00016	0.00049
	(CK * D)	0.00002	0.00002	0.00003
	(CK * D)	-0.00002	-0.00002	-0.00002
	(CK * D)	0.00064	0.00073	0.00105
	(CK * !D)	0.00008	0.00016	0.00049
	(CK * !D)	0.00002	0.00002	0.00003
	(CK * !D)	-0.00002	-0.00002	-0.00002
	(CK * !D)	0.00064	0.00073	0.00105
	(!CK * D)	0.00008	0.00017	0.00050
	(!CK * D)	0.00002	0.00002	0.00003
	(!CK * D)	-0.00002	-0.00002	-0.00002
	(!CK * D)	0.00064	0.00073	0.00106
	(!CK * !D)	0.00083	0.00092	0.00124
	(!CK * !D)	0.00000	0.00000	0.00000
	(!CK * !D)	-0.00001	-0.00000	0.00001
	(!CK * !D)	0.00126	0.00135	0.00168

Passive power(pJ) for SN falling (conditional):

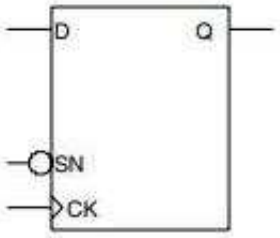
Cell Name	When	Power(pJ)		
		min	avg	max
DFFSQNX2H7R	(CK * D)	0.00083	0.00093	0.00128
	(CK * D)	-0.00002	-0.00002	-0.00002
	(CK * D)	0.00002	0.00002	0.00002
	(CK * D)	0.00027	0.00036	0.00072
	(CK * !D)	0.00083	0.00093	0.00128
	(CK * !D)	-0.00002	-0.00002	-0.00002
	(CK * !D)	0.00002	0.00002	0.00002
	(CK * !D)	0.00027	0.00036	0.00072
	(!CK * D)	0.00082	0.00092	0.00128
	(!CK * D)	-0.00003	-0.00002	-0.00002
	(!CK * D)	0.00002	0.00002	0.00002
	(!CK * D)	0.00026	0.00036	0.00072
	(!CK * !D)	0.00083	0.00093	0.00129
	(!CK * !D)	0.00000	0.00000	0.00000
	(!CK * !D)	0.00002	0.00002	0.00002
	(!CK * !D)	0.00027	0.00037	0.00073

DFFSQX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFSQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with asynchronous active-low set (SN). The cell has a single output (Q).



Truth Table

INPUT			OUTPUT
CK	D	SN	Q
R	0	1	0
R	1	1	1
x	x	0	1
x	x	1	IQ

Footprint

Cell Name	Area
DFFSQX1H7R	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	SN	Q
DFFSQX1H7R	0.00084	0.00086	0.00071	0.05766

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSQX1H7R	0.00000	0.93176	1.15813

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQX1H7R	CK->Q (RR)	SN	0.09410	0.24817	0.60874
	SN->Q (FR)	(CK * D)	0.07353	0.23174	0.60755
	SN->Q (FR)	(CK * !D)	0.07353	0.23174	0.60755
	SN->Q (FR)	(!CK * D)	0.06841	0.22064	0.59246
	SN->Q (FR)	(!CK * !D)	0.06990	0.22278	0.59570

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQX1H7R	CK->Q (RF)	SN	0.10157	0.24692	0.54155

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSQX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX1H7R	**hold**	**CK (R)**	-0.02514	0.01859	0.07568
	setup	**CK (R)**	-0.05024	0.01629	0.07169

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX1H7R	**hold**	**CK (R)**	-0.09983	-0.04172	-0.00622
	setup	**CK (R)**	0.02563	0.07519	0.15166

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX1H7R	**recovery**	**CK (R)**	-0.00742	0.05218	0.11072
	removal	**CK (R)**	0.04361	0.08811	0.15836

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSQX1H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQX1H7R	CK	SN	0.00287	0.00302	0.00347
	CK	SN	-0.00001	0.00000	0.00003
	CK	SN	-0.00004	-0.00002	0.00000
	CK	SN	0.00351	0.00363	0.00404
	SN	(CK * D)	0.00362	0.00374	0.00410
	SN	(CK * D)	-0.00004	-0.00003	-0.00000
	SN	(CK * D)	-0.00001	0.00003	0.00007
	SN	(CK * D)	0.00304	0.00317	0.00351
	SN	(CK * !D)	0.00362	0.00374	0.00410
	SN	(CK * !D)	-0.00004	-0.00003	-0.00000
	SN	(CK * !D)	-0.00001	0.00003	0.00007
	SN	(CK * !D)	0.00303	0.00317	0.00351
	SN	(!CK * D)	0.00245	0.00259	0.00296
	SN	(!CK * D)	-0.00002	0.00002	0.00006
	SN	(!CK * D)	-0.00006	-0.00004	0.00001
	SN	(!CK * D)	0.00204	0.00215	0.00250
	SN	(!CK * !D)	0.00251	0.00262	0.00299
	SN	(!CK * !D)	0.00003	0.00003	0.00004
	SN	(!CK * !D)	-0.00008	-0.00005	-0.00004
	SN	(!CK * !D)	0.00208	0.00219	0.00256

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQX1H7R	CK	SN	0.00306	0.00317	0.00353
	CK	SN	-0.00001	0.00000	0.00001
	CK	SN	0.00000	0.00002	0.00004
	CK	SN	0.00361	0.00373	0.00409

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7R	0.00249	0.00260	0.00294
	0.00000	0.00000	0.00000
	0.00003	0.00004	0.00005
	0.00300	0.00310	0.00344

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7R	0.00349	0.00357	0.00389
	0.00000	0.00000	0.00000
	0.00006	0.00006	0.00006
	0.00281	0.00289	0.00322

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7R	0.00144	0.00160	0.00212
	-0.00001	-0.00000	0.00000
	0.00001	0.00002	0.00002
	0.00200	0.00215	0.00268

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7R	0.00179	0.00195	0.00252
	0.00000	0.00000	0.00001
	-0.00002	-0.00001	-0.00001
	0.00123	0.00140	0.00197

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7R	0.00086	0.00095	0.00128
	0.00000	0.00000	0.00000
	-0.00001	-0.00000	-0.00000
	0.00128	0.00137	0.00170

Passive power(pJ) for SN falling :

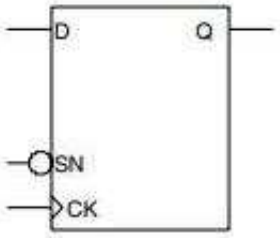
Cell Name	Power(pJ)		
	min	avg	max
DFFSQX1H7R	0.00078	0.00088	0.00123
	0.00000	0.00000	0.00000
	0.00002	0.00002	0.00002
	0.00024	0.00034	0.00069

DFFSQX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DFFSQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with asynchronous active-low set (SN). The cell has a single output (Q).



Truth Table

INPUT			OUTPUT
CK	D	SN	Q
R	0	1	0
R	1	1	1
x	x	0	1
x	x	1	IQ

Footprint

Cell Name	Area
DFFSQX2H7R	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	SN	Q
DFFSQX2H7R	0.00085	0.00099	0.00072	0.08559

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSQX2H7R	0.00000	1.07187	1.33411

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQX2H7R	CK->Q (RR)	SN	0.09584	0.25337	0.61914
	SN->Q (FR)	(CK * D)	0.06890	0.22795	0.60684
	SN->Q (FR)	(CK * !D)	0.06890	0.22795	0.60684
	SN->Q (FR)	(!CK * D)	0.06516	0.21915	0.59396
	SN->Q (FR)	(!CK * !D)	0.06624	0.22080	0.59672

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSQX2H7R	CK->Q (RF)	SN	0.11003	0.26132	0.55856

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSQX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX2H7R	**hold**	**CK (R)**	-0.01587	0.02492	0.07594
	setup	**CK (R)**	-0.05363	0.01027	0.06151

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX2H7R	**hold**	**CK (R)**	-0.09169	-0.03581	-0.00245
	setup	**CK (R)**	0.02031	0.06695	0.13780

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSQX2H7R	**recovery**	**CK (R)**	-0.01246	0.04871	0.10921
	removal	**CK (R)**	0.03751	0.08366	0.15640

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSQX2H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQX2H7R	CK	SN	0.00313	0.00326	0.00373
	CK	SN	-0.00002	-0.00000	0.00000
	CK	SN	-0.00004	-0.00001	0.00000
	CK	SN	0.00374	0.00387	0.00429
	SN	(CK * D)	0.00387	0.00402	0.00443
	SN	(CK * D)	-0.00011	-0.00005	0.00002
	SN	(CK * D)	-0.00001	0.00004	0.00009
	SN	(CK * D)	0.00327	0.00343	0.00379
	SN	(CK * !D)	0.00387	0.00402	0.00443
	SN	(CK * !D)	-0.00011	-0.00005	0.00001
	SN	(CK * !D)	-0.00001	0.00004	0.00007
	SN	(CK * !D)	0.00330	0.00343	0.00379
	SN	(!CK * D)	0.00127	0.00283	0.00323
	SN	(!CK * D)	-0.00001	0.00005	0.00229
	SN	(!CK * D)	-0.00008	-0.00003	0.00004
	SN	(!CK * D)	0.00228	0.00241	0.00299
	SN	(!CK * !D)	0.00276	0.00289	0.00328
	SN	(!CK * !D)	0.00001	0.00002	0.00002
	SN	(!CK * !D)	-0.00007	-0.00003	-0.00002
	SN	(!CK * !D)	0.00231	0.00244	0.00282

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSQX2H7R	CK	SN	0.00339	0.00351	0.00396
	CK	SN	0.00000	0.00000	0.00002
	CK	SN	0.00000	0.00001	0.00004
	CK	SN	0.00394	0.00407	0.00452

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7R	0.00251	0.00261	0.00295
	0.00000	0.00000	0.00000
	0.00004	0.00004	0.00005
	0.00300	0.00310	0.00345

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7R	0.00349	0.00358	0.00390
	0.00000	0.00000	0.00000
	0.00005	0.00006	0.00007
	0.00281	0.00290	0.00322

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7R	0.00142	0.00164	0.00237
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00209	0.00230	0.00303

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7R	0.00188	0.00211	0.00289
	-0.00000	-0.00000	0.00000
	-0.00001	-0.00001	0.00000
	0.00121	0.00144	0.00222

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7R	0.00086	0.00095	0.00128
	0.00000	0.00000	0.00000
	-0.00001	-0.00000	0.00000
	0.00129	0.00138	0.00171

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSQX2H7R	0.00080	0.00089	0.00125
	0.00000	0.00000	0.00000
	0.00002	0.00002	0.00002
	0.00024	0.00034	0.00069

DFFSX0P5H7R

Cell Description

D Flip-Flop with Async Set
Q = !SN ? 1 : rising (CK) ?D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	SN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFSX0P5H7R	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	D	SN	Q	QN
DFFSX0P5H7R	0.00088	0.00069	0.00074	0.05958	0.05947

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSX0P5H7R	0.00000	0.84573	1.18712

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX0P5H7R	CK->Q (RR)	SN	0.10378	0.25305	0.61307
	SN->Q (FR)	(CK * D)	0.09316	0.25732	0.66149
	SN->Q (FR)	(CK * !D)	0.09322	0.25732	0.66149
	SN->Q (FR)	(!CK * D)	0.08167	0.24088	0.63115
	SN->Q (FR)	(!CK * !D)	0.08613	0.24851	0.64638

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX0P5H7R	CK->Q (RF)	SN	0.12129	0.24490	0.53017

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX0P5H7R	CK->QN (RR)	SN	0.09111	0.24780	0.60725

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX0P5H7R	CK->QN (RF)	SN	0.07317	0.20599	0.50073
	SN->QN (FF)	(CK * D)	0.06063	0.21254	0.56324
	SN->QN (FF)	(CK * !D)	0.06069	0.21254	0.56323
	SN->QN (FF)	(!CK * D)	0.05223	0.19143	0.51825
	SN->QN (FF)	(!CK * !D)	0.05611	0.19895	0.53323

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX0P5H7R	**hold**	**CK (R)**	-0.05222	-0.01657	0.01070
	setup	**CK (R)**	0.00699	0.04384	0.10867

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX0P5H7R	**hold**	**CK (R)**	-0.06754	0.01038	0.07604
	setup	**CK (R)**	-0.05346	0.03552	0.14738

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX0P5H7R	**recovery**	**CK (R)**	-0.10469	-0.00547	0.17305
	removal	**CK (R)**	0.06533	0.10218	0.16516

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSX0P5H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX0P5H7R	CK	SN	0.00172	0.00181	0.00205
	CK	SN	-0.00003	-0.00002	-0.00001
	CK	SN	0.00000	0.00001	0.00003
	CK	SN	0.00197	0.00207	0.00231
	SN	(CK * D)	0.00189	0.00196	0.00216
	SN	(CK * D)	-0.00002	-0.00002	-0.00001
	SN	(CK * D)	-0.00001	0.00002	0.00002
	SN	(CK * D)	0.00160	0.00168	0.00187
	SN	(CK * !D)	0.00189	0.00196	0.00216
	SN	(CK * !D)	-0.00002	-0.00002	-0.00001
	SN	(CK * !D)	-0.00001	0.00002	0.00002
	SN	(CK * !D)	0.00160	0.00168	0.00187
	SN	(!CK * D)	0.00135	0.00143	0.00160
	SN	(!CK * D)	-0.00004	-0.00004	-0.00002
	SN	(!CK * D)	0.00003	0.00004	0.00006
	SN	(!CK * D)	0.00101	0.00109	0.00127
	SN	(!CK * !D)	0.00142	0.00150	0.00168
	SN	(!CK * !D)	-0.00005	-0.00005	-0.00003
	SN	(!CK * !D)	0.00003	0.00005	0.00007
	SN	(!CK * !D)	0.00106	0.00115	0.00132

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX0P5H7R	CK	SN	0.00182	0.00193	0.00220
	CK	SN	0.00001	0.00002	0.00004
	CK	SN	-0.00002	-0.00001	0.00000
	CK	SN	0.00221	0.00232	0.00259

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX0P5H7R	CK	SN	0.00182	0.00193	0.00220
	CK	SN	0.00001	0.00002	0.00004
	CK	SN	-0.00002	-0.00001	0.00000
	CK	SN	0.00222	0.00232	0.00260

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX0P5H7R	CK	SN	0.00172	0.00181	0.00204
	CK	SN	-0.00004	-0.00002	-0.00001
	CK	SN	0.00000	0.00001	0.00002
	CK	SN	0.00196	0.00207	0.00230
	SN	(CK * D)	0.00189	0.00196	0.00216
	SN	(CK * D)	-0.00004	-0.00002	0.00000
	SN	(CK * D)	-0.00001	0.00002	0.00004
	SN	(CK * D)	0.00159	0.00168	0.00187
	SN	(CK * !D)	0.00189	0.00196	0.00216
	SN	(CK * !D)	-0.00004	-0.00002	0.00000
	SN	(CK * !D)	-0.00001	0.00002	0.00004
	SN	(CK * !D)	0.00159	0.00168	0.00187
	SN	(!CK * D)	0.00135	0.00143	0.00160
	SN	(!CK * D)	-0.00006	-0.00004	-0.00002
	SN	(!CK * D)	0.00002	0.00004	0.00006
	SN	(!CK * D)	0.00101	0.00109	0.00127
	SN	(!CK * !D)	0.00141	0.00150	0.00168
	SN	(!CK * !D)	-0.00007	-0.00005	-0.00003
	SN	(!CK * !D)	0.00003	0.00005	0.00007
	SN	(!CK * !D)	0.00106	0.00115	0.00132

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7R	0.00266	0.00275	0.00310
	0.00001	0.00002	0.00003
	0.00001	0.00002	0.00003
	0.00330	0.00338	0.00373

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7R	0.00353	0.00367	0.00416
	0.00004	0.00005	0.00006
	-0.00003	-0.00002	-0.00001
	0.00302	0.00315	0.00363

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7R	0.00121	0.00127	0.00151
	0.00003	0.00003	0.00003
	-0.00003	-0.00003	-0.00003
	0.00174	0.00181	0.00204

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7R	0.00152	0.00158	0.00184
	-0.00003	-0.00003	-0.00003
	0.00003	0.00003	0.00003
	0.00098	0.00105	0.00130

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7R	0.00028	0.00028	0.00028
	0.00003	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00091	0.00092	0.00093

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX0P5H7R	0.00017	0.00017	0.00018
	0.00000	0.00000	0.00001
	0.00000	0.00000	0.00000
	-0.00029	-0.00028	-0.00027

DFFSX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Set
Q = !SN ? 1 : rising (CK) ?D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	SN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFSX1H7R	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	D	SN	Q	QN
DFFSX1H7R	0.00088	0.00069	0.00072	0.07027	0.07047

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSX1H7R	0.00000	0.90236	1.27206

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX1H7R	CK->Q (RR)	SN	0.10281	0.25168	0.61061
	SN->Q (FR)	(CK * D)	0.09424	0.25839	0.66242
	SN->Q (FR)	(CK * !D)	0.09423	0.25839	0.66243
	SN->Q (FR)	(!CK * D)	0.08218	0.24130	0.63144
	SN->Q (FR)	(!CK * !D)	0.08680	0.24909	0.64700

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX1H7R	CK->Q (RF)	SN	0.12048	0.24470	0.53179

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX1H7R	CK->QN (RR)	SN	0.08936	0.24671	0.60719

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX1H7R	CK->QN (RF)	SN	0.07201	0.20613	0.50381
	SN->QN (FF)	(CK * D)	0.06107	0.21531	0.57035
	SN->QN (FF)	(CK * !D)	0.06106	0.21531	0.57037
	SN->QN (FF)	(!CK * D)	0.05218	0.19352	0.52442
	SN->QN (FF)	(!CK * !D)	0.05620	0.20119	0.53949

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX1H7R	**hold**	**CK (R)**	-0.05152	-0.01770	0.01070
	setup	**CK (R)**	0.00683	0.04478	0.11229

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX1H7R	**hold**	**CK (R)**	-0.06832	0.01103	0.07633
	setup	**CK (R)**	-0.05213	0.03512	0.14864

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX1H7R	**recovery**	**CK (R)**	-0.10789	-0.00524	0.18090
	removal	**CK (R)**	0.06410	0.10261	0.16516

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSX1H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX1H7R	CK	SN	0.00182	0.00191	0.00216
	CK	SN	-0.00002	-0.00002	-0.00001
	CK	SN	0.00000	0.00001	0.00003
	CK	SN	0.00207	0.00217	0.00242
	SN	(CK * D)	0.00199	0.00207	0.00228
	SN	(CK * D)	-0.00002	-0.00002	-0.00001
	SN	(CK * D)	-0.00001	0.00002	0.00002
	SN	(CK * D)	0.00171	0.00178	0.00200
	SN	(CK * !D)	0.00199	0.00207	0.00228
	SN	(CK * !D)	-0.00002	-0.00002	-0.00002
	SN	(CK * !D)	0.00002	0.00002	0.00002
	SN	(CK * !D)	0.00171	0.00178	0.00200
	SN	(!CK * D)	0.00143	0.00152	0.00170
	SN	(!CK * D)	-0.00006	-0.00004	-0.00003
	SN	(!CK * D)	0.00003	0.00004	0.00006
	SN	(!CK * D)	0.00108	0.00118	0.00137
	SN	(!CK * !D)	0.00150	0.00159	0.00178
	SN	(!CK * !D)	-0.00008	-0.00005	-0.00004
	SN	(!CK * !D)	0.00003	0.00005	0.00007
	SN	(!CK * !D)	0.00114	0.00124	0.00143

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX1H7R	CK	SN	0.00193	0.00203	0.00231
	CK	SN	0.00001	0.00002	0.00002
	CK	SN	-0.00002	-0.00001	0.00000
	CK	SN	0.00231	0.00241	0.00270

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX1H7R	CK	SN	0.00191	0.00203	0.00231
	CK	SN	0.00000	0.00002	0.00004
	CK	SN	-0.00002	-0.00001	0.00001
	CK	SN	0.00231	0.00241	0.00270

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX1H7R	CK	SN	0.00182	0.00191	0.00214
	CK	SN	-0.00004	-0.00002	0.00000
	CK	SN	0.00000	0.00001	0.00003
	CK	SN	0.00207	0.00217	0.00240
	SN	(CK * D)	0.00200	0.00207	0.00228
	SN	(CK * D)	-0.00002	-0.00002	-0.00000
	SN	(CK * D)	-0.00000	0.00002	0.00003
	SN	(CK * D)	0.00171	0.00178	0.00199
	SN	(CK * !D)	0.00200	0.00207	0.00228
	SN	(CK * !D)	-0.00003	-0.00002	0.00001
	SN	(CK * !D)	-0.00000	0.00002	0.00004
	SN	(CK * !D)	0.00170	0.00178	0.00199
	SN	(!CK * D)	0.00143	0.00151	0.00170
	SN	(!CK * D)	-0.00004	-0.00004	-0.00003
	SN	(!CK * D)	0.00002	0.00004	0.00006
	SN	(!CK * D)	0.00108	0.00118	0.00137
	SN	(!CK * !D)	0.00151	0.00159	0.00178
	SN	(!CK * !D)	-0.00006	-0.00005	-0.00004
	SN	(!CK * !D)	0.00003	0.00005	0.00007
	SN	(!CK * !D)	0.00114	0.00124	0.00143

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7R	0.00271	0.00281	0.00315
	0.00001	0.00001	0.00002
	0.00002	0.00002	0.00002
	0.00334	0.00343	0.00377

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7R	0.00355	0.00369	0.00419
	0.00003	0.00004	0.00006
	-0.00002	-0.00002	-0.00002
	0.00301	0.00315	0.00365

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7R	0.00126	0.00133	0.00156
	0.00002	0.00003	0.00003
	-0.00003	-0.00003	-0.00002
	0.00179	0.00184	0.00207

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7R	0.00154	0.00160	0.00186
	-0.00003	-0.00003	-0.00002
	0.00002	0.00003	0.00003
	0.00101	0.00108	0.00134

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7R	0.00030	0.00030	0.00030
	0.00003	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00094	0.00094	0.00095

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX1H7R	0.00016	0.00017	0.00018
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	-0.00028	-0.00027	-0.00026

DFFSX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Async Set
Q = !SN ? 1 : rising (CK) ?D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
CK	D	SN	Q	QN
R	0	1	0	1
R	1	1	1	0
x	x	0	1	0
x	x	1	IQ	IQN

Footprint

Cell Name	Area
DFFSX2H7R	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	CK	D	SN	Q	QN
DFFSX2H7R	0.00095	0.00070	0.00072	0.08101	0.08101

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFSX2H7R	0.00000	1.05105	1.44831

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX2H7R	CK->Q (RR)	SN	0.10216	0.24870	0.60403
	SN->Q (FR)	(CK * D)	0.10085	0.26570	0.67327
	SN->Q (FR)	(CK * !D)	0.10085	0.26570	0.67328
	SN->Q (FR)	(!CK * D)	0.08780	0.24768	0.64167
	SN->Q (FR)	(!CK * !D)	0.09280	0.25577	0.65734

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX2H7R	CK->Q (RF)	SN	0.11690	0.23056	0.49040

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX2H7R	CK->QN (RR)	SN	0.08586	0.24235	0.59890

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
DFFSX2H7R	CK->QN (RF)	SN	0.06805	0.19274	0.46379
	SN->QN (FF)	(CK * D)	0.06323	0.21174	0.54842
	SN->QN (FF)	(CK * !D)	0.06323	0.21173	0.54825
	SN->QN (FF)	(!CK * D)	0.05395	0.18951	0.50198
	SN->QN (FF)	(!CK * !D)	0.05810	0.19746	0.51738

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFSX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX2H7R	**hold**	**CK (R)**	-0.05172	-0.01937	0.00624
	setup	**CK (R)**	0.01339	0.04814	0.11570

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX2H7R	**hold**	**CK (R)**	-0.07259	0.00475	0.06904
	setup	**CK (R)**	-0.04346	0.04274	0.15470

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFSX2H7R	**recovery**	**CK (R)**	-0.09196	0.00881	0.21805
	removal	**CK (R)**	0.05882	0.09493	0.14897

Min Pulse Width (ns) for SN:

Cell Name	High	Low
DFFSX2H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX2H7R	CK	SN	0.00201	0.00213	0.00241
	CK	SN	-0.00003	-0.00002	-0.00002
	CK	SN	0.00000	0.00001	0.00003
	CK	SN	0.00228	0.00241	0.00271
	SN	(CK * D)	0.00219	0.00228	0.00254
	SN	(CK * D)	-0.00005	-0.00002	-0.00000
	SN	(CK * D)	0.00001	0.00002	0.00005
	SN	(CK * D)	0.00188	0.00199	0.00224
	SN	(CK * !D)	0.00219	0.00228	0.00254
	SN	(CK * !D)	-0.00005	-0.00002	-0.00000
	SN	(CK * !D)	0.00001	0.00002	0.00005
	SN	(CK * !D)	0.00188	0.00199	0.00224
	SN	(!CK * D)	0.00161	0.00170	0.00192
	SN	(!CK * D)	-0.00007	-0.00004	-0.00003
	SN	(!CK * D)	0.00002	0.00004	0.00005
	SN	(!CK * D)	0.00127	0.00136	0.00159
	SN	(!CK * !D)	0.00168	0.00177	0.00201
	SN	(!CK * !D)	-0.00008	-0.00005	-0.00004
	SN	(!CK * !D)	-0.00012	0.00005	0.00008
	SN	(!CK * !D)	0.00131	0.00142	0.00165

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX2H7R	CK	SN	0.00209	0.00221	0.00254
	CK	SN	0.00002	0.00002	0.00004
	CK	SN	-0.00002	-0.00001	-0.00000
	CK	SN	0.00251	0.00263	0.00295

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX2H7R	CK	SN	0.00209	0.00222	0.00255
	CK	SN	0.00000	0.00002	0.00004
	CK	SN	-0.00003	-0.00001	0.00000
	CK	SN	0.00251	0.00263	0.00298

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
DFFSX2H7R	CK	SN	0.00200	0.00213	0.00241
	CK	SN	-0.00004	-0.00002	0.00000
	CK	SN	0.00000	0.00001	0.00003
	CK	SN	0.00228	0.00241	0.00269
	SN	(CK * D)	0.00220	0.00228	0.00253
	SN	(CK * D)	-0.00003	-0.00002	-0.00001
	SN	(CK * D)	0.00000	0.00002	0.00003
	SN	(CK * D)	0.00191	0.00199	0.00224
	SN	(CK * !D)	0.00219	0.00228	0.00253
	SN	(CK * !D)	-0.00004	-0.00002	-0.00001
	SN	(CK * !D)	-0.00000	0.00002	0.00004
	SN	(CK * !D)	0.00189	0.00199	0.00224
	SN	(!CK * D)	0.00160	0.00169	0.00192
	SN	(!CK * D)	-0.00004	-0.00004	-0.00003
	SN	(!CK * D)	0.00003	0.00004	0.00006
	SN	(!CK * D)	0.00126	0.00136	0.00159
	SN	(!CK * !D)	0.00168	0.00177	0.00201
	SN	(!CK * !D)	-0.00008	-0.00005	-0.00003
	SN	(!CK * !D)	0.00003	0.00005	0.00007
	SN	(!CK * !D)	0.00133	0.00142	0.00165

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7R	0.00281	0.00293	0.00336
	-0.00001	0.00001	0.00002
	0.00002	0.00003	0.00004
	0.00345	0.00358	0.00401

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7R	0.00369	0.00384	0.00441
	0.00003	0.00003	0.00004
	-0.00004	-0.00003	-0.00002
	0.00310	0.00324	0.00381

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7R	0.00128	0.00134	0.00158
	0.00001	0.00002	0.00003
	-0.00002	-0.00002	-0.00002
	0.00179	0.00185	0.00209

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7R	0.00157	0.00163	0.00189
	-0.00003	-0.00002	-0.00001
	0.00002	0.00002	0.00002
	0.00105	0.00112	0.00138

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7R	0.00032	0.00032	0.00032
	0.00004	0.00004	0.00004
	0.00000	0.00000	0.00000
	0.00097	0.00098	0.00098

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFSX2H7R	0.00016	0.00017	0.00018
	0.00000	0.00000	0.00001
	0.00000	0.00000	0.00000
	-0.00028	-0.00027	-0.00026

DFFTRQX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Sync Clear
Q = rising (CK) ? D&RN : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	x	0
R	1	0	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
DFFTRQX0P5H7R	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFTRQX0P5H7R	0.00087	0.00082	0.00091	0.05934

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFTRQX0P5H7R	0.00000	0.89334	1.30991

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX0P5H7R	CK->Q (RR)	0.10210	0.25605	0.61698

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX0P5H7R	CK->Q (RF)	0.08800	0.22144	0.51858

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFTRQX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX0P5H7R	**hold**	**CK (R)**	-0.08919	-0.03538	0.00714
	setup	**CK (R)**	0.00165	0.04579	0.10661

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX0P5H7R	**hold**	**CK (R)**	-0.12241	-0.01249	0.07770
	setup	**CK (R)**	-0.04157	0.04143	0.15205

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX0P5H7R	**hold**	**CK (R)**	-0.07598	-0.03139	0.00920
	setup	**CK (R)**	-0.00027	0.04257	0.10157

Constraints(ns) for RN falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX0P5H7R	**hold**	**CK (R)**	-0.11502	-0.00917	0.07885
	setup	**CK (R)**	-0.04486	0.03771	0.14433

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX0P5H7R	CK	0.00299	0.00314	0.00363
	CK	0.00006	0.00007	0.00007
	CK	-0.00007	-0.00004	-0.00000
	CK	0.00371	0.00388	0.00433

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX0P5H7R	CK	0.00351	0.00365	0.00406
	CK	-0.00006	-0.00003	0.00001
	CK	0.00005	0.00007	0.00010
	CK	0.00396	0.00410	0.00453

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7R	0.00163	0.00174	0.00214
	0.00000	0.00000	0.00000
	0.00001	0.00002	0.00003
	0.00221	0.00232	0.00272

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7R	0.00375	0.00392	0.00446
	-0.00000	-0.00000	0.00000
	0.00000	0.00001	0.00002
	0.00306	0.00321	0.00376

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7R	0.00133	0.00141	0.00169
	0.00010	0.00010	0.00010
	-0.00013	-0.00013	-0.00012
	0.00234	0.00242	0.00270

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7R	0.00205	0.00216	0.00259
	-0.00010	-0.00010	-0.00009
	0.00012	0.00013	0.00013
	0.00104	0.00116	0.00160

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7R	0.00132	0.00143	0.00186
	0.00009	0.00010	0.00010
	-0.00007	-0.00007	-0.00006
	0.00219	0.00230	0.00273

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX0P5H7R	0.00192	0.00205	0.00252
	-0.00010	-0.00010	-0.00009
	0.00006	0.00007	0.00007
	0.00106	0.00119	0.00166

DFFTRQX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Sync Clear
Q = rising (CK) ? D&RN : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	x	0
R	1	0	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
DFFTRQX1H7R	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFTRQX1H7R	0.00088	0.00079	0.00088	0.07035

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFTRQX1H7R	0.00000	0.92329	1.33994

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX1H7R	CK->Q (RR)	0.09957	0.25406	0.61523

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX1H7R	CK->Q (RF)	0.08613	0.22114	0.52137

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFTRQX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX1H7R	**hold**	**CK (R)**	-0.10155	-0.04215	0.00094
	setup	**CK (R)**	0.00588	0.05298	0.12221

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX1H7R	**hold**	**CK (R)**	-0.11844	-0.01095	0.08142
	setup	**CK (R)**	-0.04458	0.04012	0.14695

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX1H7R	**hold**	**CK (R)**	-0.09044	-0.03837	0.00288
	setup	**CK (R)**	0.00315	0.05042	0.11395

Constraints(ns) for RN falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX1H7R	**hold**	**CK (R)**	-0.11511	-0.00833	0.08106
	setup	**CK (R)**	-0.04441	0.03717	0.14178

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX1H7R	CK	0.00308	0.00322	0.00368
	CK	0.00007	0.00007	0.00007
	CK	-0.00005	-0.00004	0.00001
	CK	0.00380	0.00397	0.00443

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX1H7R	CK	0.00360	0.00374	0.00415
	CK	-0.00006	-0.00002	0.00001
	CK	0.00004	0.00007	0.00008
	CK	0.00406	0.00420	0.00462

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7R	0.00165	0.00175	0.00215
	-0.00000	-0.00000	0.00000
	0.00001	0.00002	0.00003
	0.00223	0.00233	0.00273

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7R	0.00382	0.00394	0.00441
	-0.00000	0.00000	0.00000
	-0.00003	-0.00002	-0.00001
	0.00330	0.00343	0.00389

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7R	0.00139	0.00146	0.00172
	0.00009	0.00009	0.00010
	-0.00011	-0.00011	-0.00011
	0.00234	0.00241	0.00267

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7R	0.00203	0.00214	0.00255
	-0.00010	-0.00009	-0.00009
	0.00011	0.00011	0.00011
	0.00109	0.00120	0.00161

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7R	0.00137	0.00147	0.00187
	0.00009	0.00009	0.00010
	-0.00006	-0.00006	-0.00006
	0.00220	0.00231	0.00270

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX1H7R	0.00193	0.00205	0.00250
	-0.00010	-0.00009	-0.00009
	0.00006	0.00006	0.00006
	0.00110	0.00122	0.00166

DFFTRQX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop with Sync Clear
Q = rising (CK) ? D&RN : pre_Q

Truth Table

INPUT			OUTPUT
CK	D	RN	Q
R	0	x	0
R	1	0	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
DFFTRQX2H7R	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	RN	Q
DFFTRQX2H7R	0.00095	0.00082	0.00091	0.08905

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFTRQX2H7R	0.00000	1.04762	1.51696

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX2H7R	CK->Q (RR)	0.09491	0.24844	0.60651

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFTRQX2H7R	CK->Q (RF)	0.08441	0.21783	0.51258

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFTRQX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX2H7R	**hold**	**CK (R)**	-0.08927	-0.03850	0.00122
	setup	**CK (R)**	0.00933	0.04926	0.10975

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX2H7R	**hold**	**CK (R)**	-0.12707	-0.01879	0.06751
	setup	**CK (R)**	-0.03439	0.04598	0.15331

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX2H7R	**hold**	**CK (R)**	-0.07967	-0.03475	0.00272
	setup	**CK (R)**	0.00775	0.04663	0.10254

Constraints(ns) for RN falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFTRQX2H7R	**hold**	**CK (R)**	-0.11811	-0.01539	0.06901
	setup	**CK (R)**	-0.03808	0.04248	0.14778

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX2H7R	CK	0.00338	0.00357	0.00418
	CK	0.00006	0.00007	0.00008
	CK	-0.00007	-0.00003	0.00003
	CK	0.00415	0.00436	0.00492

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFTRQX2H7R	CK	0.00398	0.00415	0.00465
	CK	-0.00006	-0.00001	0.00003
	CK	0.00003	0.00006	0.00009
	CK	0.00449	0.00467	0.00522

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7R	0.00172	0.00185	0.00232
	0.00000	0.00000	0.00000
	0.00001	0.00002	0.00003
	0.00235	0.00248	0.00296

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7R	0.00396	0.00411	0.00465
	-0.00000	-0.00000	0.00000
	-0.00003	-0.00002	-0.00001
	0.00338	0.00354	0.00407

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7R	0.00143	0.00151	0.00179
	0.00008	0.00009	0.00009
	-0.00012	-0.00012	-0.00011
	0.00243	0.00250	0.00279

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7R	0.00210	0.00222	0.00266
	-0.00009	-0.00009	-0.00008
	0.00011	0.00012	0.00012
	0.00112	0.00124	0.00169

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7R	0.00141	0.00153	0.00196
	0.00008	0.00009	0.00009
	-0.00006	-0.00006	-0.00006
	0.00226	0.00238	0.00281

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFTRQX2H7R	0.00198	0.00211	0.00259
	-0.00009	-0.00009	-0.00008
	0.00006	0.00006	0.00006
	0.00114	0.00126	0.00175

DFFX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop
Q = rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CK	D	Q	QN
R	0	0	1
R	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFX0P5H7R	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CK	D	Q	QN
DFFX0P5H7R	0.00089	0.00070	0.05955	0.05967

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFX0P5H7R	0.00000	0.92061	1.03384

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX0P5H7R	CK->Q (RR)	0.09940	0.25066	0.60631

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX0P5H7R	CK->Q (RF)	0.07148	0.20150	0.49203

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX0P5H7R	CK->QN (RR)	0.09870	0.24434	0.60021

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX0P5H7R	CK->QN (RF)	0.12366	0.24369	0.52657

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX0P5H7R	**hold**	**CK (R)**	-0.06944	-0.02396	0.00576
	setup	**CK (R)**	0.00184	0.03491	0.08735

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX0P5H7R	**hold**	**CK (R)**	-0.09808	-0.00283	0.07030
	setup	**CK (R)**	-0.04569	0.03607	0.13818

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX0P5H7R	CK	0.00182	0.00191	0.00214
	CK	0.00003	0.00004	0.00006
	CK	-0.00004	-0.00003	-0.00002
	CK	0.00222	0.00230	0.00254

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX0P5H7R	CK	0.00174	0.00183	0.00207
	CK	-0.00004	-0.00003	-0.00001
	CK	0.00003	0.00004	0.00006
	CK	0.00198	0.00208	0.00233

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX0P5H7R	CK	0.00174	0.00183	0.00208
	CK	-0.00004	-0.00003	-0.00001
	CK	0.00002	0.00004	0.00006
	CK	0.00198	0.00208	0.00234

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX0P5H7R	CK	0.00183	0.00191	0.00214
	CK	0.00004	0.00004	0.00005
	CK	-0.00004	-0.00003	-0.00002
	CK	0.00222	0.00230	0.00253

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX0P5H7R	0.00161	0.00172	0.00212
	-0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	0.00224	0.00235	0.00276

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX0P5H7R	0.00346	0.00359	0.00405
	0.00005	0.00006	0.00007
	-0.00000	-0.00000	0.00000
	0.00302	0.00314	0.00360

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX0P5H7R	0.00113	0.00119	0.00143
	0.00005	0.00005	0.00005
	-0.00005	-0.00004	-0.00004
	0.00169	0.00176	0.00200

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX0P5H7R	0.00162	0.00168	0.00195
	-0.00005	-0.00005	-0.00005
	0.00004	0.00004	0.00005
	0.00104	0.00112	0.00138

DFFX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop
Q = rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CK	D	Q	QN
R	0	0	1
R	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFX1H7R	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CK	D	Q	QN
DFFX1H7R	0.00088	0.00069	0.06324	0.06321

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFX1H7R	0.00000	0.96688	1.08438

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX1H7R	CK->Q (RR)	0.09642	0.24760	0.60358

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX1H7R	CK->Q (RF)	0.07023	0.19241	0.46225

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX1H7R	CK->QN (RR)	0.09653	0.24205	0.59767

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX1H7R	CK->QN (RF)	0.11792	0.23004	0.49097

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFX1H7R	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX1H7R	**hold**	**CK (R)**	-0.06940	-0.02434	0.00401
	setup	**CK (R)**	0.00210	0.03518	0.09012

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX1H7R	**hold**	**CK (R)**	-0.09991	-0.00225	0.06930
	setup	**CK (R)**	-0.04278	0.03691	0.14209

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX1H7R	CK	0.00182	0.00192	0.00215
	CK	0.00002	0.00005	0.00007
	CK	-0.00003	-0.00003	-0.00001
	CK	0.00221	0.00230	0.00254

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX1H7R	CK	0.00177	0.00187	0.00210
	CK	-0.00004	-0.00003	-0.00002
	CK	0.00003	0.00004	0.00005
	CK	0.00202	0.00212	0.00236

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX1H7R	CK	0.00178	0.00187	0.00212
	CK	-0.00003	-0.00003	-0.00001
	CK	0.00004	0.00004	0.00004
	CK	0.00203	0.00212	0.00238

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX1H7R	CK	0.00183	0.00192	0.00215
	CK	0.00004	0.00005	0.00006
	CK	-0.00003	-0.00003	-0.00002
	CK	0.00222	0.00230	0.00254

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX1H7R	0.00161	0.00171	0.00212
	0.00001	0.00001	0.00001
	0.00000	0.00000	0.00001
	0.00223	0.00234	0.00275

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX1H7R	0.00345	0.00358	0.00404
	0.00005	0.00006	0.00006
	-0.00001	-0.00000	0.00000
	0.00302	0.00314	0.00359

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX1H7R	0.00114	0.00121	0.00145
	0.00005	0.00005	0.00005
	-0.00004	-0.00004	-0.00004
	0.00170	0.00177	0.00201

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX1H7R	0.00163	0.00170	0.00196
	-0.00005	-0.00005	-0.00005
	0.00004	0.00004	0.00004
	0.00107	0.00114	0.00139

DFFX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop
Q = rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CK	D	Q	QN
R	0	0	1
R	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFX2H7R	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CK	D	Q	QN
DFFX2H7R	0.00097	0.00071	0.08911	0.08960

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFX2H7R	0.00000	1.18158	1.34731

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX2H7R	CK->Q (RR)	0.09411	0.24589	0.60085

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX2H7R	CK->Q (RF)	0.07244	0.20374	0.49441

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX2H7R	CK->QN (RR)	0.10040	0.24566	0.60263

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX2H7R	CK->QN (RF)	0.11887	0.23843	0.51982

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFX2H7R	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX2H7R	**hold**	**CK (R)**	-0.07835	-0.03071	0.00174
	setup	**CK (R)**	0.01112	0.04303	0.10327

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX2H7R	**hold**	**CK (R)**	-0.10673	-0.01039	0.06112
	setup	**CK (R)**	-0.03887	0.04262	0.15002

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX2H7R	CK	0.00216	0.00226	0.00255
	CK	0.00002	0.00005	0.00007
	CK	-0.00003	-0.00003	-0.00002
	CK	0.00258	0.00268	0.00299

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX2H7R	CK	0.00209	0.00220	0.00248
	CK	-0.00005	-0.00003	-0.00001
	CK	0.00002	0.00004	0.00006
	CK	0.00238	0.00248	0.00276

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX2H7R	CK	0.00210	0.00220	0.00248
	CK	-0.00003	-0.00003	-0.00001
	CK	0.00002	0.00004	0.00005
	CK	0.00237	0.00248	0.00276

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX2H7R	CK	0.00216	0.00226	0.00253
	CK	0.00004	0.00005	0.00005
	CK	-0.00004	-0.00003	-0.00002
	CK	0.00258	0.00268	0.00296

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX2H7R	0.00178	0.00191	0.00238
	0.00000	0.00001	0.00001
	-0.00000	0.00000	0.00000
	0.00247	0.00260	0.00307

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX2H7R	0.00404	0.00418	0.00468
	-0.00001	-0.00001	-0.00000
	0.00004	0.00004	0.00005
	0.00315	0.00331	0.00381

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX2H7R	0.00132	0.00139	0.00166
	0.00004	0.00004	0.00004
	-0.00004	-0.00003	-0.00003
	0.00186	0.00193	0.00220

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX2H7R	0.00190	0.00198	0.00226
	-0.00004	-0.00004	-0.00004
	0.00003	0.00004	0.00004
	0.00134	0.00142	0.00171

DFFX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

D Flip-Flop
Q = rising (CK) ? D : pre_Q
QN = !Q

Truth Table

INPUT		OUTPUT	
CK	D	Q	QN
R	0	0	1
R	1	1	0
x	x	IQ	IQN

Footprint

Cell Name	Area
DFFX3H7R	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	CK	D	Q	QN
DFFX3H7R	0.00096	0.00076	0.12627	0.12672

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DFFX3H7R	0.00000	1.33021	1.50018

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX3H7R	CK->Q (RR)	0.09234	0.24467	0.59981

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX3H7R	CK->Q (RF)	0.07143	0.20523	0.50055

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX3H7R	CK->QN (RR)	0.10285	0.24715	0.60274

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DFFX3H7R	CK->QN (RF)	0.12032	0.24147	0.52674

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
DFFX3H7R	0.9851	0.9851

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX3H7R	**hold**	**CK (R)**	-0.07642	-0.02865	0.00104
	setup	**CK (R)**	0.00661	0.04105	0.09867

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
DFFX3H7R	**hold**	**CK (R)**	-0.09837	-0.00551	0.06206
	setup	**CK (R)**	-0.04160	0.03850	0.14180

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX3H7R	CK	0.00230	0.00244	0.00274
	CK	0.00002	0.00005	0.00008
	CK	-0.00003	-0.00003	-0.00002
	CK	0.00275	0.00286	0.00318

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX3H7R	CK	0.00222	0.00234	0.00265
	CK	-0.00005	-0.00003	-0.00001
	CK	0.00002	0.00005	0.00008
	CK	0.00248	0.00261	0.00294

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX3H7R	CK	0.00223	0.00234	0.00266
	CK	-0.00003	-0.00003	-0.00003
	CK	0.00004	0.00005	0.00005
	CK	0.00250	0.00261	0.00295

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DFFX3H7R	CK	0.00232	0.00244	0.00272
	CK	0.00005	0.00005	0.00007
	CK	-0.00003	-0.00003	-0.00003
	CK	0.00275	0.00286	0.00315

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX3H7R	0.00178	0.00191	0.00239
	0.00000	0.00001	0.00002
	-0.00000	0.00000	0.00001
	0.00246	0.00259	0.00308

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX3H7R	0.00415	0.00428	0.00479
	-0.00002	-0.00001	-0.00000
	0.00004	0.00006	0.00006
	0.00324	0.00338	0.00389

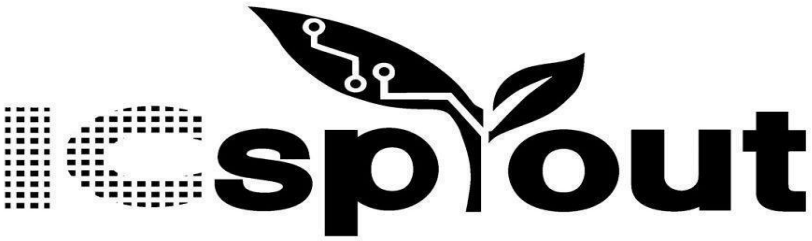
Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
DFFX3H7R	0.00135	0.00143	0.00172
	0.00005	0.00005	0.00006
	-0.00005	-0.00004	-0.00004
	0.00196	0.00204	0.00233

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
DFFX3H7R	0.00205	0.00213	0.00245
	-0.00006	-0.00005	-0.00005
	0.00004	0.00004	0.00005
	0.00143	0.00152	0.00183

DLY1X2H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY1X2H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY1X2H7R	0.00081	0.07670

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY1X2H7R	0.00000	0.41071	0.41352

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY1X2H7R	A->Y (RR)	0.06461	0.19892	0.52535

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY1X2H7R	A->Y (FF)	0.06557	0.21378	0.57917

Power Information

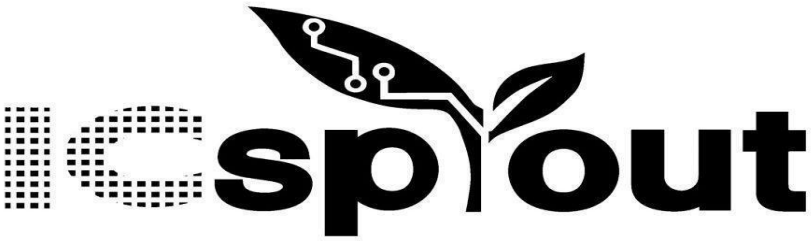
Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY1X2H7R	A	0.00149	0.00165	0.00210
	A	-0.00001	-0.00001	-0.00001
	A	0.00000	0.00000	0.00001
	A	0.00206	0.00222	0.00263

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY1X2H7R	A	0.00211	0.00227	0.00271
	A	0.00001	0.00001	0.00001
	A	-0.00001	-0.00000	-0.00000
	A	0.00154	0.00170	0.00216

DLY1X6H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY1X6H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY1X6H7R	0.00081	0.22954

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY1X6H7R	0.00000	0.66429	0.75500

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY1X6H7R	A->Y (RR)	0.07525	0.21324	0.54234

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY1X6H7R	A->Y (FF)	0.07500	0.22720	0.59488

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY1X6H7R	A	0.00257	0.00278	0.00333
	A	-0.00010	-0.00009	-0.00009
	A	0.00003	0.00004	0.00005
	A	0.00302	0.00322	0.00367

Internal switching power(pJ) to Y falling :

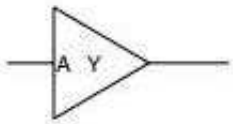
Cell Name	Input	Power(pJ)		
		min	avg	max
DLY1X6H7R	A	0.00305	0.00328	0.00376
	A	0.00009	0.00009	0.00012
	A	-0.00004	-0.00004	-0.00003
	A	0.00260	0.00284	0.00337

DLY2X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DLY2 cell provides the logical delay of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY2X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY2X2H7R	0.00081	0.07694

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY2X2H7R	0.00000	0.24061	0.24496

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY2X2H7R	A->Y (RR)	0.09390	0.23305	0.56809

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY2X2H7R	A->Y (FF)	0.09479	0.24958	0.62558

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY2X2H7R	A	0.00174	0.00188	0.00228
	A	-0.00002	-0.00002	-0.00000
	A	0.00000	0.00000	0.00001
	A	0.00230	0.00244	0.00280

Internal switching power(pJ) to Y falling :

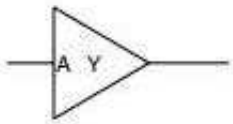
Cell Name	Input	Power(pJ)		
		min	avg	max
DLY2X2H7R	A	0.00233	0.00248	0.00287
	A	0.00001	0.00002	0.00003
	A	-0.00001	-0.00000	0.00000
	A	0.00178	0.00193	0.00234

DLY2X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DLY2 cell provides the logical delay of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY2X6H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY2X6H7R	0.00081	0.22789

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY2X6H7R	0.00000	0.49254	0.57358

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY2X6H7R	A->Y (RR)	0.10962	0.25239	0.58655

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY2X6H7R	A->Y (FF)	0.10803	0.26733	0.64330

Power Information

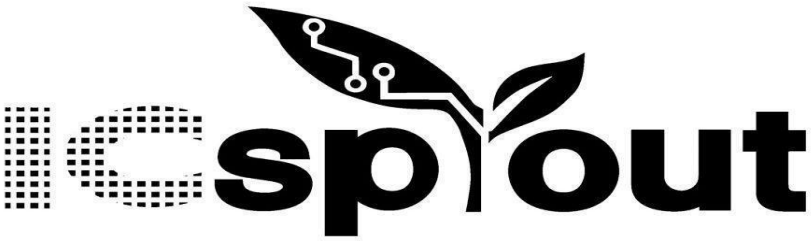
Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY2X6H7R	A	0.00281	0.00299	0.00342
	A	-0.00010	-0.00010	-0.00009
	A	0.00000	0.00004	0.00005
	A	0.00327	0.00343	0.00382

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY2X6H7R	A	0.00331	0.00349	0.00392
	A	0.00009	0.00010	0.00013
	A	-0.00004	-0.00004	0.00000
	A	0.00286	0.00305	0.00352

DLY3X2H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY3X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY3X2H7R	0.00081	0.07671

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY3X2H7R	0.00000	0.24159	0.24620

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY3X2H7R	A->Y (RR)	0.11976	0.26212	0.60159

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY3X2H7R	A->Y (FF)	0.12238	0.28215	0.66397

Power Information

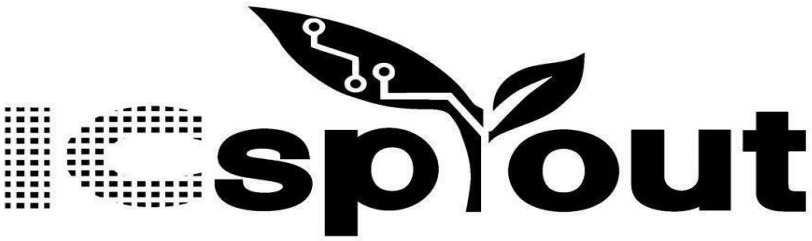
Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY3X2H7R	A	0.00190	0.00203	0.00237
	A	-0.00002	-0.00002	0.00001
	A	0.00000	0.00000	0.00001
	A	0.00246	0.00259	0.00292

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY3X2H7R	A	0.00250	0.00263	0.00299
	A	0.00002	0.00002	0.00002
	A	-0.00000	-0.00000	0.00000
	A	0.00194	0.00208	0.00245

DLY3X6H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY3X6H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY3X6H7R	0.00081	0.22750

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY3X6H7R	0.00000	0.49379	0.57480

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY3X6H7R	A->Y (RR)	0.14221	0.28912	0.62911

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY3X6H7R	A->Y (FF)	0.14065	0.30660	0.69059

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY3X6H7R	A	0.00308	0.00325	0.00366
	A	-0.00010	-0.00010	-0.00008
	A	0.00001	0.00004	0.00007
	A	0.00352	0.00369	0.00406

Internal switching power(pJ) to Y falling :

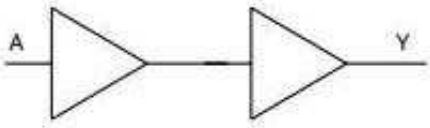
Cell Name	Input	Power(pJ)		
		min	avg	max
DLY3X6H7R	A	0.00355	0.00374	0.00413
	A	0.00008	0.00010	0.00014
	A	-0.00005	-0.00004	-0.00001
	A	0.00313	0.00330	0.00375

DLY4X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DLY4 cell provides the logical delay of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY4X2H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY4X2H7R	0.00085	0.07577

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY4X2H7R	0.00000	0.24567	0.25028

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY4X2H7R	A->Y (RR)	0.15268	0.29754	0.63984

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY4X2H7R	A->Y (FF)	0.15352	0.31740	0.70288

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY4X2H7R	A	0.00214	0.00226	0.00260
	A	-0.00002	-0.00002	-0.00001
	A	0.00000	0.00001	0.00003
	A	0.00273	0.00284	0.00315

Internal switching power(pJ) to Y falling :

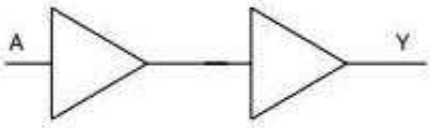
Cell Name	Input	Power(pJ)		
		min	avg	max
DLY4X2H7R	A	0.00271	0.00283	0.00316
	A	0.00002	0.00002	0.00002
	A	-0.00001	-0.00000	-0.00000
	A	0.00213	0.00225	0.00259

DLY4X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The DLY4 cell provides the logical delay of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	0
1	1

Footprint

Cell Name	Area
DLY4X6H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
DLY4X6H7R	0.00086	0.22591

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
DLY4X6H7R	0.00000	0.49751	0.57809

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY4X6H7R	A->Y (RR)	0.17738	0.32880	0.67375

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
DLY4X6H7R	A->Y (FF)	0.17692	0.34971	0.74080

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
DLY4X6H7R	A	0.00314	0.00328	0.00361
	A	-0.00010	-0.00010	-0.00009
	A	0.00001	0.00004	0.00005
	A	0.00361	0.00375	0.00408

Internal switching power(pJ) to Y falling :

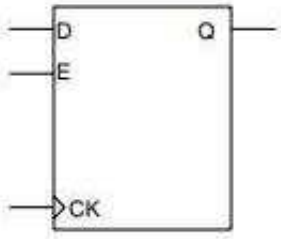
Cell Name	Input	Power(pJ)		
		min	avg	max
DLY4X6H7R	A	0.00367	0.00382	0.00421
	A	0.00009	0.00010	0.00015
	A	-0.00005	-0.00004	-0.00001
	A	0.00320	0.00335	0.00374

EDFFQX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The EDFFQ cell is a positive edge-triggered, static D-type flip-flop with a synchronous, active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT			OUTPUT
CK	D	E	Q
R	x	0	IQ
R	0	1	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
EDFFQX0P5H7R	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	E	Q
EDFFQX0P5H7R	0.00086	0.00071	0.00194	0.05965

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
EDFFQX0P5H7R	0.00000	0.92394	1.09478

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX0P5H7R	CK->Q (RR)	E	0.10966	0.26415	0.62313

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX0P5H7R	CK->Q (RF)	E	0.08176	0.21706	0.51351

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
EDFFQX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX0P5H7R	**hold**	**CK (R)**	-0.13254	-0.06530	-0.02414
	setup	**CK (R)**	0.03466	0.07717	0.15535

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX0P5H7R	**hold**	**CK (R)**	-0.16858	-0.05144	0.04059
	setup	**CK (R)**	0.00926	0.08932	0.20580

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX0P5H7R	**hold**	**CK (R)**	0.00700	0.04033	0.08200
	setup	**CK (R)**	0.02902	0.08246	0.13740

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX0P5H7R	**hold**	**CK (R)**	-0.14236	-0.04085	0.04886
	setup	**CK (R)**	0.04454	0.08600	0.16493

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX0P5H7R	CK	E	0.00478	0.00492	0.00537
	CK	E	0.00005	0.00005	0.00008
	CK	E	-0.00006	-0.00003	0.00000
	CK	E	0.00542	0.00555	0.00599

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX0P5H7R	CK	E	0.00382	0.00397	0.00440
	CK	E	-0.00005	-0.00002	0.00001
	CK	E	0.00005	0.00006	0.00009
	CK	E	0.00437	0.00453	0.00496

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7R	(D * E)	0.00184	0.00195	0.00236
	(D * E)	0.00002	0.00002	0.00003
	(D * E)	0.00000	0.00000	0.00001
	(D * E)	0.00246	0.00257	0.00298
	(D * !E)	0.00184	0.00195	0.00236
	(D * !E)	0.00002	0.00002	0.00003
	(D * !E)	0.00000	0.00000	0.00000
	(D * !E)	0.00246	0.00258	0.00298
	(!D * E)	0.00157	0.00168	0.00209
	(!D * E)	0.00000	0.00000	0.00001
	(!D * E)	0.00001	0.00002	0.00003
	(!D * E)	0.00215	0.00226	0.00268
	(!D * !E)	0.00184	0.00195	0.00236
	(!D * !E)	0.00002	0.00002	0.00003
	(!D * !E)	0.00000	0.00000	0.00000
	(!D * !E)	0.00246	0.00258	0.00298

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7R	(D * E)	0.00341	0.00353	0.00399
	(D * E)	-0.00001	-0.00001	0.00000
	(D * E)	-0.00001	-0.00000	0.00000
	(D * E)	0.00291	0.00303	0.00348
	(D * !E)	0.00220	0.00232	0.00277
	(D * !E)	-0.00001	0.00000	0.00001
	(D * !E)	-0.00000	-0.00000	0.00000
	(D * !E)	0.00162	0.00174	0.00218
	(!D * E)	0.00360	0.00375	0.00429
	(!D * E)	-0.00001	-0.00000	0.00000
	(!D * E)	-0.00001	0.00001	0.00002
	(!D * E)	0.00287	0.00303	0.00358
	(!D * !E)	0.00220	0.00232	0.00277
	(!D * !E)	-0.00001	0.00000	0.00001
	(!D * !E)	-0.00000	-0.00000	0.00000
	(!D * !E)	0.00162	0.00174	0.00218

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7R	(CK * E)	0.00012	0.00018	0.00039
	(CK * E)	0.00016	0.00016	0.00017
	(CK * E)	-0.00012	-0.00012	-0.00012
	(CK * E)	0.00111	0.00116	0.00138
	(CK * !E)	-0.00018	-0.00018	-0.00016
	(CK * !E)	-0.00001	-0.00001	-0.00001
	(CK * !E)	0.00001	0.00001	0.00001
	(CK * !E)	0.00017	0.00017	0.00018
	(!CK * E)	0.00130	0.00135	0.00156
	(!CK * E)	0.00016	0.00016	0.00016
	(!CK * E)	-0.00013	-0.00013	-0.00013
	(!CK * E)	0.00230	0.00235	0.00255
	(!CK * !E)	-0.00018	-0.00018	-0.00016
	(!CK * !E)	-0.00001	-0.00001	-0.00001
	(!CK * !E)	0.00001	0.00001	0.00001
	(!CK * !E)	0.00017	0.00017	0.00018

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7R	(CK * E)	0.00125	0.00130	0.00154
	(CK * E)	-0.00016	-0.00016	-0.00016
	(CK * E)	0.00012	0.00012	0.00012
	(CK * E)	0.00026	0.00032	0.00056
	(CK * !E)	0.00019	0.00019	0.00019
	(CK * !E)	0.00001	0.00001	0.00001
	(CK * !E)	-0.00001	-0.00001	-0.00001
	(CK * !E)	-0.00017	-0.00016	-0.00015
	(!CK * E)	0.00260	0.00266	0.00289
	(!CK * E)	-0.00016	-0.00016	-0.00016
	(!CK * E)	0.00013	0.00013	0.00013
	(!CK * E)	0.00161	0.00167	0.00190
	(!CK * !E)	0.00019	0.00019	0.00019
	(!CK * !E)	0.00001	0.00001	0.00001
	(!CK * !E)	-0.00001	-0.00001	-0.00001
	(!CK * !E)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for E rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7R	(CK * D)	-0.00011	0.00016	0.00109
	(CK * D)	0.00014	0.00015	0.00016
	(CK * D)	-0.00012	-0.00012	-0.00011
	(CK * D)	0.00159	0.00185	0.00279
	(CK * !D)	0.00090	0.00103	0.00152
	(CK * !D)	-0.00010	-0.00009	-0.00009
	(CK * !D)	0.00005	0.00007	0.00008
	(CK * !D)	0.00166	0.00178	0.00227
	(!CK * D)	0.00117	0.00141	0.00229
	(!CK * D)	0.00015	0.00015	0.00016
	(!CK * D)	-0.00013	-0.00012	-0.00011
	(!CK * D)	0.00288	0.00311	0.00400
	(!CK * !D)	0.00204	0.00218	0.00267
	(!CK * !D)	-0.00011	-0.00010	-0.00009
	(!CK * !D)	0.00007	0.00008	0.00010
	(!CK * !D)	0.00278	0.00291	0.00342

Passive power(pJ) for E falling (conditional):

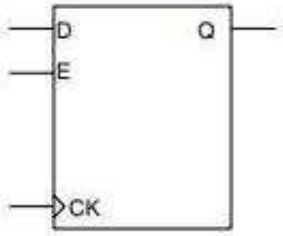
Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX0P5H7R	(CK * D)	0.00169	0.00198	0.00298
	(CK * D)	-0.00016	-0.00015	-0.00014
	(CK * D)	0.00011	0.00012	0.00013
	(CK * D)	-0.00000	0.00028	0.00129
	(CK * !D)	0.00156	0.00172	0.00228
	(CK * !D)	0.00009	0.00009	0.00010
	(CK * !D)	-0.00008	-0.00007	-0.00005
	(CK * !D)	0.00080	0.00097	0.00154
	(!CK * D)	0.00298	0.00324	0.00420
	(!CK * D)	-0.00015	-0.00015	-0.00014
	(!CK * D)	0.00011	0.00012	0.00014
	(!CK * D)	0.00128	0.00155	0.00249
	(!CK * !D)	0.00291	0.00308	0.00365
	(!CK * !D)	0.00009	0.00010	0.00011
	(!CK * !D)	-0.00009	-0.00007	-0.00007
	(!CK * !D)	0.00218	0.00234	0.00291

EDFFQX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The EDFFQ cell is a positive edge-triggered, static D-type flip-flop with a synchronous, active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT			OUTPUT
CK	D	E	Q
R	x	0	IQ
R	0	1	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
EDFFQX1H7R	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	E	Q
EDFFQX1H7R	0.00086	0.00071	0.00194	0.07048

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
EDFFQX1H7R	0.00000	0.94446	1.11487

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX1H7R	CK->Q (RR)	E	0.10632	0.26086	0.61973

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX1H7R	CK->Q (RF)	E	0.07992	0.21617	0.51471

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
EDFFQX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX1H7R	**hold**	**CK (R)**	-0.13253	-0.06534	-0.02253
	setup	**CK (R)**	0.03425	0.07746	0.15753

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX1H7R	**hold**	**CK (R)**	-0.16764	-0.05174	0.04037
	setup	**CK (R)**	0.01083	0.09012	0.20747

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX1H7R	**hold**	**CK (R)**	0.00855	0.04052	0.08233
	setup	**CK (R)**	0.02998	0.08320	0.13807

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX1H7R	**hold**	**CK (R)**	-0.14111	-0.04163	0.04770
	setup	**CK (R)**	0.04511	0.08582	0.16561

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX1H7R	CK	E	0.00486	0.00500	0.00547
	CK	E	0.00000	0.00005	0.00006
	CK	E	-0.00007	-0.00003	0.00002
	CK	E	0.00546	0.00563	0.00607

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX1H7R	CK	E	0.00390	0.00405	0.00447
	CK	E	-0.00006	-0.00002	0.00002
	CK	E	0.00004	0.00006	0.00009
	CK	E	0.00446	0.00460	0.00504

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7R	(D * E)	0.00184	0.00195	0.00236
	(D * E)	0.00002	0.00002	0.00003
	(D * E)	0.00000	0.00000	0.00001
	(D * E)	0.00245	0.00257	0.00298
	(D * !E)	0.00184	0.00195	0.00236
	(D * !E)	0.00002	0.00003	0.00003
	(D * !E)	0.00000	0.00000	0.00001
	(D * !E)	0.00246	0.00257	0.00298
	(!D * E)	0.00157	0.00168	0.00210
	(!D * E)	0.00000	0.00000	0.00001
	(!D * E)	0.00001	0.00002	0.00003
	(!D * E)	0.00215	0.00226	0.00267
	(!D * !E)	0.00184	0.00195	0.00236
	(!D * !E)	0.00002	0.00003	0.00003
	(!D * !E)	0.00000	0.00000	0.00001
	(!D * !E)	0.00246	0.00257	0.00298

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7R	(D * E)	0.00342	0.00354	0.00400
	(D * E)	-0.00001	-0.00000	0.00001
	(D * E)	-0.00001	-0.00000	0.00000
	(D * E)	0.00291	0.00304	0.00350
	(D * !E)	0.00220	0.00231	0.00276
	(D * !E)	-0.00001	-0.00000	0.00000
	(D * !E)	-0.00001	-0.00000	0.00000
	(D * !E)	0.00161	0.00173	0.00218
	(!D * E)	0.00362	0.00377	0.00432
	(!D * E)	-0.00001	-0.00000	0.00000
	(!D * E)	-0.00001	0.00001	0.00002
	(!D * E)	0.00288	0.00305	0.00360
	(!D * !E)	0.00219	0.00231	0.00276
	(!D * !E)	-0.00001	-0.00000	0.00000
	(!D * !E)	-0.00001	-0.00000	0.00000
	(!D * !E)	0.00161	0.00173	0.00218

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7R	(CK * E)	0.00012	0.00018	0.00040
	(CK * E)	0.00016	0.00016	0.00017
	(CK * E)	-0.00012	-0.00012	-0.00012
	(CK * E)	0.00111	0.00117	0.00138
	(CK * !E)	-0.00018	-0.00018	-0.00016
	(CK * !E)	-0.00001	-0.00001	-0.00001
	(CK * !E)	0.00001	0.00001	0.00001
	(CK * !E)	0.00017	0.00017	0.00018
	(!CK * E)	0.00132	0.00137	0.00158
	(!CK * E)	0.00016	0.00016	0.00016
	(!CK * E)	-0.00013	-0.00013	-0.00013
	(!CK * E)	0.00232	0.00237	0.00258
	(!CK * !E)	-0.00018	-0.00018	-0.00016
	(!CK * !E)	-0.00001	-0.00001	-0.00001
	(!CK * !E)	0.00001	0.00001	0.00001
	(!CK * !E)	0.00017	0.00017	0.00018

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7R	(CK * E)	0.00125	0.00131	0.00154
	(CK * E)	-0.00017	-0.00016	-0.00016
	(CK * E)	0.00012	0.00012	0.00012
	(CK * E)	0.00027	0.00033	0.00056
	(CK * !E)	0.00019	0.00019	0.00019
	(CK * !E)	0.00001	0.00001	0.00001
	(CK * !E)	-0.00001	-0.00001	-0.00001
	(CK * !E)	-0.00017	-0.00016	-0.00015
	(!CK * E)	0.00263	0.00268	0.00291
	(!CK * E)	-0.00016	-0.00016	-0.00016
	(!CK * E)	0.00013	0.00013	0.00013
	(!CK * E)	0.00163	0.00169	0.00192
	(!CK * !E)	0.00019	0.00019	0.00019
	(!CK * !E)	0.00001	0.00001	0.00001
	(!CK * !E)	-0.00001	-0.00001	-0.00001
	(!CK * !E)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for E rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7R	(CK * D)	-0.00010	0.00016	0.00109
	(CK * D)	0.00015	0.00016	0.00016
	(CK * D)	-0.00013	-0.00012	-0.00011
	(CK * D)	0.00160	0.00186	0.00279
	(CK * !D)	0.00091	0.00104	0.00153
	(CK * !D)	-0.00010	-0.00010	-0.00009
	(CK * !D)	0.00005	0.00007	0.00008
	(CK * !D)	0.00165	0.00179	0.00227
	(!CK * D)	0.00119	0.00143	0.00230
	(!CK * D)	0.00015	0.00015	0.00016
	(!CK * D)	-0.00014	-0.00013	-0.00011
	(!CK * D)	0.00291	0.00314	0.00402
	(!CK * !D)	0.00206	0.00220	0.00270
	(!CK * !D)	-0.00011	-0.00010	-0.00009
	(!CK * !D)	0.00008	0.00008	0.00010
	(!CK * !D)	0.00279	0.00293	0.00344

Passive power(pJ) for E falling (conditional):

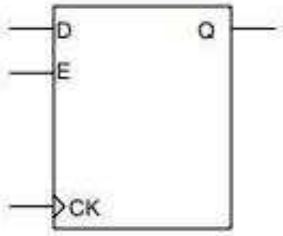
Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX1H7R	(CK * D)	0.00170	0.00199	0.00299
	(CK * D)	-0.00016	-0.00016	-0.00015
	(CK * D)	0.00012	0.00012	0.00013
	(CK * D)	0.00000	0.00029	0.00129
	(CK * !D)	0.00156	0.00172	0.00228
	(CK * !D)	0.00009	0.00010	0.00012
	(CK * !D)	-0.00007	-0.00007	-0.00005
	(CK * !D)	0.00081	0.00098	0.00155
	(!CK * D)	0.00300	0.00327	0.00422
	(!CK * D)	-0.00016	-0.00015	-0.00015
	(!CK * D)	0.00011	0.00013	0.00014
	(!CK * D)	0.00129	0.00156	0.00251
	(!CK * !D)	0.00293	0.00310	0.00367
	(!CK * !D)	0.00009	0.00010	0.00011
	(!CK * !D)	-0.00009	-0.00008	-0.00008
	(!CK * !D)	0.00220	0.00236	0.00293

EDFFQX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The EDFFQ cell is a positive edge-triggered, static D-type flip-flop with a synchronous, active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT			OUTPUT
CK	D	E	Q
R	x	0	IQ
R	0	1	0
R	1	1	1
x	x	x	IQ

Footprint

Cell Name	Area
EDFFQX2H7R	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	CK	D	E	Q
EDFFQX2H7R	0.00086	0.00071	0.00200	0.08101

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
EDFFQX2H7R	0.00000	0.98508	1.16215

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX2H7R	CK->Q (RR)	E	0.10640	0.26088	0.61976

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
EDFFQX2H7R	CK->Q (RF)	E	0.07747	0.20498	0.48082

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
EDFFQX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX2H7R	**hold**	**CK (R)**	-0.13533	-0.06645	-0.02347
	setup	**CK (R)**	0.03330	0.07864	0.15978

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX2H7R	**hold**	**CK (R)**	-0.17086	-0.05319	0.03736
	setup	**CK (R)**	0.01618	0.09220	0.21216

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX2H7R	**hold**	**CK (R)**	0.00700	0.04115	0.08460
	setup	**CK (R)**	0.02749	0.08306	0.13966

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
EDFFQX2H7R	**hold**	**CK (R)**	-0.13594	-0.04184	0.04873
	setup	**CK (R)**	0.04331	0.08425	0.17068

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX2H7R	CK	E	0.00498	0.00513	0.00562
	CK	E	0.00006	0.00006	0.00010
	CK	E	-0.00009	-0.00003	0.00003
	CK	E	0.00562	0.00577	0.00622

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
EDFFQX2H7R	CK	E	0.00406	0.00422	0.00466
	CK	E	-0.00004	-0.00002	0.00001
	CK	E	0.00003	0.00006	0.00010
	CK	E	0.00464	0.00479	0.00525

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7R	(D * E)	0.00185	0.00197	0.00238
	(D * E)	0.00002	0.00003	0.00003
	(D * E)	0.00000	0.00000	0.00001
	(D * E)	0.00248	0.00259	0.00300
	(D * !E)	0.00186	0.00197	0.00238
	(D * !E)	0.00002	0.00003	0.00003
	(D * !E)	0.00000	0.00000	0.00001
	(D * !E)	0.00247	0.00259	0.00300
	(!D * E)	0.00159	0.00170	0.00211
	(!D * E)	0.00000	0.00000	0.00000
	(!D * E)	0.00001	0.00002	0.00002
	(!D * E)	0.00216	0.00228	0.00269
	(!D * !E)	0.00186	0.00197	0.00238
	(!D * !E)	0.00003	0.00003	0.00003
	(!D * !E)	0.00000	0.00000	0.00001
	(!D * !E)	0.00247	0.00259	0.00300

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7R	(D * E)	0.00344	0.00356	0.00403
	(D * E)	-0.00001	-0.00000	0.00001
	(D * E)	-0.00001	-0.00000	0.00000
	(D * E)	0.00295	0.00308	0.00353
	(D * !E)	0.00221	0.00233	0.00277
	(D * !E)	-0.00001	0.00000	0.00001
	(D * !E)	-0.00001	-0.00000	0.00000
	(D * !E)	0.00163	0.00175	0.00220
	(!D * E)	0.00369	0.00386	0.00441
	(!D * E)	-0.00000	-0.00000	0.00000
	(!D * E)	0.00000	0.00000	0.00001
	(!D * E)	0.00297	0.00313	0.00368
	(!D * !E)	0.00221	0.00233	0.00278
	(!D * !E)	-0.00001	0.00000	0.00001
	(!D * !E)	-0.00001	-0.00000	0.00000
	(!D * !E)	0.00163	0.00175	0.00220

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7R	(CK * E)	0.00013	0.00018	0.00040
	(CK * E)	0.00016	0.00017	0.00017
	(CK * E)	-0.00012	-0.00012	-0.00012
	(CK * E)	0.00112	0.00118	0.00139
	(CK * !E)	-0.00018	-0.00018	-0.00016
	(CK * !E)	-0.00001	-0.00001	-0.00001
	(CK * !E)	0.00001	0.00001	0.00001
	(CK * !E)	0.00017	0.00017	0.00018
	(!CK * E)	0.00134	0.00139	0.00159
	(!CK * E)	0.00017	0.00017	0.00017
	(!CK * E)	-0.00014	-0.00014	-0.00013
	(!CK * E)	0.00235	0.00241	0.00261
	(!CK * !E)	-0.00018	-0.00018	-0.00016
	(!CK * !E)	-0.00001	-0.00001	-0.00001
	(!CK * !E)	0.00001	0.00001	0.00002
	(!CK * !E)	0.00017	0.00017	0.00018

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7R	(CK * E)	0.00127	0.00132	0.00156
	(CK * E)	-0.00017	-0.00017	-0.00016
	(CK * E)	0.00012	0.00012	0.00012
	(CK * E)	0.00027	0.00033	0.00056
	(CK * !E)	0.00019	0.00019	0.00019
	(CK * !E)	0.00001	0.00001	0.00001
	(CK * !E)	-0.00001	-0.00001	-0.00001
	(CK * !E)	-0.00017	-0.00016	-0.00015
	(!CK * E)	0.00271	0.00277	0.00298
	(!CK * E)	-0.00017	-0.00017	-0.00017
	(!CK * E)	0.00013	0.00014	0.00014
	(!CK * E)	0.00170	0.00176	0.00198
	(!CK * !E)	0.00019	0.00019	0.00019
	(!CK * !E)	0.00001	0.00001	0.00001
	(!CK * !E)	-0.00002	-0.00001	-0.00001
	(!CK * !E)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for E rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7R	(CK * D)	-0.00013	0.00016	0.00119
	(CK * D)	0.00017	0.00017	0.00018
	(CK * D)	-0.00013	-0.00012	-0.00011
	(CK * D)	0.00164	0.00193	0.00296
	(CK * !D)	0.00089	0.00106	0.00164
	(CK * !D)	-0.00010	-0.00009	-0.00008
	(CK * !D)	0.00007	0.00007	0.00009
	(CK * !D)	0.00169	0.00185	0.00244
	(!CK * D)	0.00120	0.00146	0.00243
	(!CK * D)	0.00015	0.00017	0.00017
	(!CK * D)	-0.00014	-0.00014	-0.00012
	(!CK * D)	0.00297	0.00324	0.00421
	(!CK * !D)	0.00212	0.00229	0.00288
	(!CK * !D)	-0.00010	-0.00010	-0.00009
	(!CK * !D)	0.00005	0.00007	0.00008
	(!CK * !D)	0.00289	0.00307	0.00367

Passive power(pJ) for E falling (conditional):

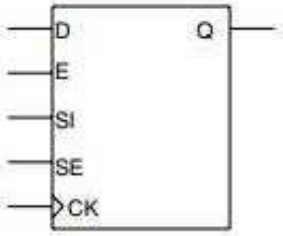
Cell Name	When	Power(pJ)		
		min	avg	max
EDFFQX2H7R	(CK * D)	0.00178	0.00209	0.00319
	(CK * D)	-0.00018	-0.00017	-0.00016
	(CK * D)	0.00012	0.00012	0.00013
	(CK * D)	0.00001	0.00033	0.00143
	(CK * !D)	0.00160	0.00179	0.00245
	(CK * !D)	0.00008	0.00010	0.00012
	(CK * !D)	-0.00007	-0.00007	-0.00007
	(CK * !D)	0.00080	0.00100	0.00167
	(!CK * D)	0.00315	0.00344	0.00448
	(!CK * D)	-0.00017	-0.00017	-0.00015
	(!CK * D)	0.00012	0.00014	0.00014
	(!CK * D)	0.00135	0.00165	0.00269
	(!CK * !D)	0.00299	0.00318	0.00386
	(!CK * !D)	0.00009	0.00010	0.00010
	(!CK * !D)	-0.00008	-0.00007	-0.00005
	(!CK * !D)	0.00220	0.00240	0.00307

ESDFFQX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The ESDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and synchronous active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	E	SE	SI	Q
R	x	0	0	x	IQ
R	x	x	1	0	0
R	x	x	1	1	1
R	0	1	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
ESDFFQX0P5H7R	12.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	E	SE	SI	Q
ESDFFQX0P5H7R	0.00093	0.00071	0.00201	0.00195	0.00078	0.05953

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ESDFFQX0P5H7R	0.00000	1.28927	1.79081

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX0P5H7R	CK->Q (RR)	SE	0.08701	0.24315	0.60769
	CK->Q (RR)	(E * !SE)	0.08701	0.24315	0.60768

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX0P5H7R	CK->Q (RF)	SE	0.07947	0.21607	0.51943
	CK->Q (RF)	(E * !SE)	0.07946	0.21606	0.51948

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ESDFFQX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7R	**hold**	**CK (R)**	-0.13914	-0.04240	0.03877
	setup	**CK (R)**	-0.01834	0.07340	0.17821

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7R	**hold**	**CK (R)**	-0.21504	-0.11018	-0.05273
	setup	**CK (R)**	0.07218	0.13280	0.24267

Constraints(ns) for E rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7R	**hold**	**CK (R)**	-0.10620	-0.02175	0.05934
	setup	**CK (R)**	0.07877	0.11774	0.16995

Constraints(ns) for E falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7R	**hold**	**CK (R)**	-0.14164	-0.05340	0.02399
	setup	**CK (R)**	0.05815	0.12137	0.23150

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7R	hold	CK (R)	-0.05128	0.00442	0.07193
	setup	CK (R)	0.04448	0.08425	0.13291

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7R	hold	CK (R)	-0.10187	-0.01852	0.05825
	setup	CK (R)	0.02417	0.07891	0.16600

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7R	hold	CK (R)	-0.08365	-0.00834	0.06811
	setup	CK (R)	-0.04384	0.03782	0.11928

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX0P5H7R	hold	CK (R)	-0.16164	-0.07332	-0.02154
	setup	CK (R)	0.04009	0.09444	0.18920

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX0P5H7R	CK	SE	0.00468	0.00484	0.00534
	CK	SE	0.00014	0.00015	0.00019
	CK	SE	-0.00016	-0.00013	-0.00010
	CK	SE	0.00589	0.00607	0.00655
	CK	(E * !SE)	0.00429	0.00445	0.00494
	CK	(E * !SE)	-0.00003	-0.00000	0.00000
	CK	(E * !SE)	0.00000	0.00000	0.00003
	CK	(E * !SE)	0.00480	0.00499	0.00548

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX0P5H7R	CK	SE	0.00476	0.00490	0.00528
	CK	SE	-0.00019	-0.00015	-0.00014
	CK	SE	0.00010	0.00013	0.00016
	CK	SE	0.00481	0.00493	0.00533
	CK	(E * !SE)	0.00358	0.00370	0.00408
	CK	(E * !SE)	-0.00000	0.00000	0.00003
	CK	(E * !SE)	-0.00001	0.00000	0.00002
	CK	(E * !SE)	0.00427	0.00442	0.00483

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7R	0.00154	0.00164	0.00202
	0.00000	0.00000	0.00000
	-0.00001	-0.00001	0.00000
	0.00218	0.00228	0.00266

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7R	0.00389	0.00400	0.00440
	-0.00000	-0.00000	0.00000
	0.00005	0.00006	0.00007
	0.00317	0.00328	0.00368

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7R	0.00185	0.00189	0.00207
	0.00019	0.00019	0.00021
	-0.00016	-0.00015	-0.00013
	0.00333	0.00337	0.00354

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7R	0.00362	0.00367	0.00387
	-0.00021	-0.00019	-0.00019
	0.00013	0.00015	0.00016
	0.00213	0.00218	0.00239

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7R	0.00173	0.00194	0.00275
	0.00018	0.00019	0.00019
	0.00000	0.00000	0.00000
	0.00389	0.00410	0.00491

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7R	0.00342	0.00359	0.00416
	0.00010	0.00012	0.00013
	0.00000	0.00000	0.00000
	0.00316	0.00334	0.00391

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7R	0.00231	0.00246	0.00299
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00002
	0.00313	0.00328	0.00381

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7R	0.00300	0.00325	0.00405
	-0.00000	-0.00000	0.00000
	-0.00002	-0.00001	0.00000
	0.00219	0.00244	0.00326

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7R	0.00149	0.00154	0.00173
	0.00006	0.00007	0.00007
	-0.00006	-0.00005	-0.00004
	0.00240	0.00245	0.00263

Passive power(pJ) for SI falling :

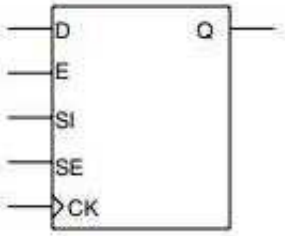
Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX0P5H7R	0.00276	0.00281	0.00301
	-0.00007	-0.00007	-0.00006
	0.00004	0.00005	0.00006
	0.00185	0.00190	0.00210

ESDFFQX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The ESDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and synchronous active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	E	SE	SI	Q
R	x	0	0	x	IQ
R	x	x	1	0	0
R	x	x	1	1	1
R	0	1	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
ESDFFQX1H7R	12.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	E	SE	SI	Q
ESDFFQX1H7R	0.00092	0.00076	0.00201	0.00196	0.00078	0.07757

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ESDFFQX1H7R	0.00000	1.41757	2.02755

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX1H7R	CK->Q (RR)	SE	0.08629	0.24335	0.61025
	CK->Q (RR)	(E * !SE)	0.08628	0.24337	0.61020

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX1H7R	CK->Q (RF)	SE	0.07908	0.21324	0.50850
	CK->Q (RF)	(E * !SE)	0.07908	0.21325	0.50854

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ESDFFQX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7R	**hold**	**CK (R)**	-0.13772	-0.04240	0.03909
	setup	**CK (R)**	-0.01666	0.07373	0.17918

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7R	**hold**	**CK (R)**	-0.21487	-0.11202	-0.05514
	setup	**CK (R)**	0.07611	0.13585	0.24679

Constraints(ns) for E rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7R	**hold**	**CK (R)**	-0.10335	-0.02113	0.05979
	setup	**CK (R)**	0.08112	0.12104	0.17008

Constraints(ns) for E falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7R	**hold**	**CK (R)**	-0.14535	-0.05735	0.01962
	setup	**CK (R)**	0.06818	0.12744	0.23674

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7R	hold	CK (R)	-0.05984	0.00033	0.06958
	setup	CK (R)	0.05071	0.09032	0.13917

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7R	hold	CK (R)	-0.10507	-0.02055	0.05706
	setup	CK (R)	0.02974	0.08245	0.17080

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7R	hold	CK (R)	-0.08801	-0.01184	0.06509
	setup	CK (R)	-0.04264	0.04168	0.12491

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX1H7R	hold	CK (R)	-0.16430	-0.07781	-0.02693
	setup	CK (R)	0.04552	0.09972	0.19450

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX1H7R	CK	SE	0.00482	0.00500	0.00551
	CK	SE	0.00012	0.00015	0.00019
	CK	SE	-0.00016	-0.00013	-0.00007
	CK	SE	0.00606	0.00626	0.00675
	CK	(E * !SE)	0.00445	0.00461	0.00512
	CK	(E * !SE)	-0.00002	-0.00000	0.00000
	CK	(E * !SE)	-0.00001	0.00000	0.00003
	CK	(E * !SE)	0.00498	0.00517	0.00567

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX1H7R	CK	SE	0.00504	0.00519	0.00557
	CK	SE	-0.00018	-0.00015	-0.00012
	CK	SE	0.00007	0.00013	0.00017
	CK	SE	0.00505	0.00519	0.00559
	CK	(E * !SE)	0.00385	0.00398	0.00436
	CK	(E * !SE)	0.00000	0.00000	0.00002
	CK	(E * !SE)	0.00000	0.00000	0.00001
	CK	(E * !SE)	0.00453	0.00468	0.00507

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7R	0.00157	0.00166	0.00204
	0.00000	0.00000	0.00000
	-0.00002	-0.00001	0.00000
	0.00220	0.00231	0.00268

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7R	0.00417	0.00429	0.00469
	-0.00000	-0.00000	0.00000
	0.00006	0.00006	0.00007
	0.00344	0.00356	0.00397

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7R	0.00213	0.00218	0.00237
	0.00019	0.00020	0.00021
	-0.00017	-0.00016	-0.00015
	0.00367	0.00372	0.00391

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7R	0.00389	0.00394	0.00415
	-0.00021	-0.00020	-0.00019
	0.00015	0.00016	0.00017
	0.00234	0.00240	0.00261

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7R	0.00201	0.00224	0.00306
	0.00017	0.00019	0.00020
	0.00000	0.00000	0.00000
	0.00419	0.00442	0.00525

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7R	0.00373	0.00389	0.00445
	0.00011	0.00013	0.00013
	0.00000	0.00000	0.00000
	0.00350	0.00366	0.00423

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7R	0.00176	0.00199	0.00285
	0.00007	0.00008	0.00009
	0.00000	0.00000	0.00000
	0.00335	0.00358	0.00443

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7R	0.00329	0.00355	0.00436
	-0.00001	0.00000	0.00001
	0.00000	0.00000	0.00000
	0.00250	0.00275	0.00356

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7R	0.00177	0.00182	0.00200
	0.00006	0.00007	0.00008
	-0.00006	-0.00005	-0.00004
	0.00268	0.00273	0.00292

Passive power(pJ) for SI falling :

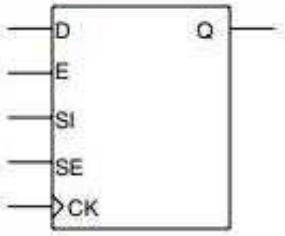
Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX1H7R	0.00297	0.00303	0.00323
	-0.00008	-0.00007	-0.00006
	0.00004	0.00005	0.00006
	0.00206	0.00212	0.00232

ESDFFQX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The ESDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and synchronous active-high enable (E). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	E	SE	SI	Q
R	x	0	0	x	IQ
R	x	x	1	0	0
R	x	x	1	1	1
R	0	1	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
ESDFFQX2H7R	12.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	E	SE	SI	Q
ESDFFQX2H7R	0.00092	0.00076	0.00203	0.00197	0.00078	0.08940

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ESDFFQX2H7R	0.00000	1.43481	2.05134

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX2H7R	CK->Q (RR)	SE	0.08477	0.24202	0.60943
	CK->Q (RR)	(E * !SE)	0.08477	0.24203	0.60943

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
ESDFFQX2H7R	CK->Q (RF)	SE	0.07678	0.21391	0.51850
	CK->Q (RF)	(E * !SE)	0.07677	0.21391	0.51850

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ESDFFQX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7R	**hold**	**CK (R)**	-0.13973	-0.04263	0.04292
	setup	**CK (R)**	-0.01730	0.07475	0.18075

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7R	**hold**	**CK (R)**	-0.21397	-0.11205	-0.05514
	setup	**CK (R)**	0.07582	0.13610	0.24753

Constraints(ns) for E rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7R	**hold**	**CK (R)**	-0.10552	-0.02143	0.05979
	setup	**CK (R)**	0.08127	0.12140	0.17058

Constraints(ns) for E falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7R	**hold**	**CK (R)**	-0.14369	-0.05732	0.01956
	setup	**CK (R)**	0.06840	0.12822	0.23911

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7R	hold	CK (R)	-0.05957	0.00009	0.06891
	setup	CK (R)	0.05030	0.09038	0.14098

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7R	hold	CK (R)	-0.10659	-0.02070	0.06012
	setup	CK (R)	0.03008	0.08272	0.17111

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7R	hold	CK (R)	-0.08670	-0.01233	0.06550
	setup	CK (R)	-0.04092	0.04303	0.12949

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ESDFFQX2H7R	hold	CK (R)	-0.16664	-0.07810	-0.02701
	setup	CK (R)	0.04854	0.10070	0.19548

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX2H7R	CK	SE	0.00492	0.00508	0.00559
	CK	SE	0.00011	0.00014	0.00016
	CK	SE	-0.00016	-0.00012	-0.00006
	CK	SE	0.00612	0.00634	0.00684
	CK	(E * !SE)	0.00452	0.00469	0.00523
	CK	(E * !SE)	-0.00003	-0.00000	0.00000
	CK	(E * !SE)	-0.00002	0.00000	0.00003
	CK	(E * !SE)	0.00503	0.00525	0.00575

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
ESDFFQX2H7R	CK	SE	0.00510	0.00525	0.00564
	CK	SE	-0.00016	-0.00014	-0.00011
	CK	SE	0.00006	0.00013	0.00018
	CK	SE	0.00510	0.00526	0.00567
	CK	(E * !SE)	0.00390	0.00404	0.00442
	CK	(E * !SE)	0.00000	0.00000	0.00003
	CK	(E * !SE)	-0.00003	-0.00000	0.00003
	CK	(E * !SE)	0.00461	0.00475	0.00514

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7R	0.00158	0.00168	0.00205
	0.00000	0.00000	0.00000
	-0.00001	-0.00000	0.00000
	0.00222	0.00232	0.00269

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7R	0.00421	0.00432	0.00473
	-0.00000	-0.00000	0.00000
	0.00005	0.00005	0.00006
	0.00349	0.00361	0.00401

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7R	0.00216	0.00221	0.00240
	0.00021	0.00021	0.00022
	-0.00017	-0.00016	-0.00015
	0.00373	0.00378	0.00396

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7R	0.00395	0.00400	0.00421
	-0.00022	-0.00021	-0.00021
	0.00015	0.00016	0.00017
	0.00238	0.00244	0.00265

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7R	0.00205	0.00227	0.00309
	0.00019	0.00020	0.00021
	0.00000	0.00000	0.00000
	0.00425	0.00448	0.00530

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7R	0.00375	0.00392	0.00448
	0.00014	0.00014	0.00016
	0.00000	0.00000	0.00000
	0.00354	0.00371	0.00427

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7R	0.00260	0.00275	0.00327
	-0.00001	-0.00001	0.00000
	0.00000	0.00001	0.00002
	0.00340	0.00354	0.00407

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7R	0.00332	0.00358	0.00439
	0.00000	0.00001	0.00002
	-0.00002	-0.00001	-0.00000
	0.00253	0.00279	0.00361

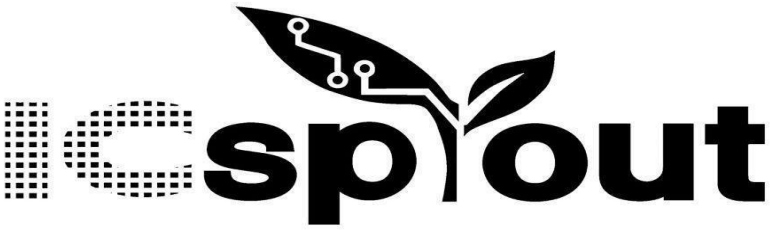
Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7R	0.00180	0.00184	0.00203
	0.00007	0.00008	0.00009
	-0.00007	-0.00006	-0.00005
	0.00273	0.00278	0.00296

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
ESDFFQX2H7R	0.00303	0.00309	0.00329
	-0.00009	-0.00008	-0.00007
	0.00005	0.00006	0.00007
	0.00210	0.00216	0.00236

FILLCAP16H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Footprint

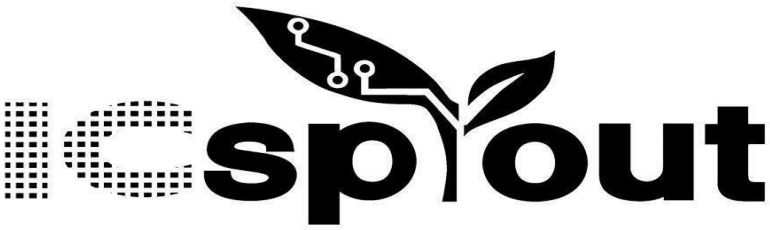
Cell Name	Area
FILLCAP16H7R	4.48000

Pin Capacitance Information

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
FILLCAP16H7R	0.00000	0.31756	0.31756

FILLCAP32H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Footprint

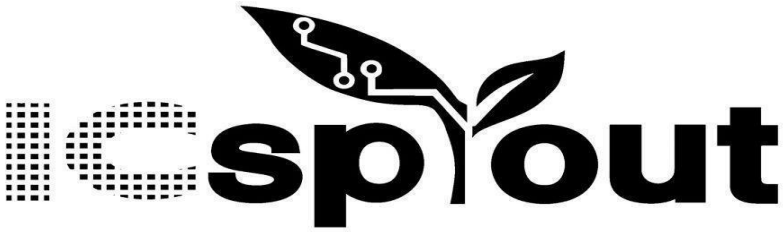
Cell Name	Area
FILLCAP32H7R	8.96000

Pin Capacitance Information

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
FILLCAP32H7R	0.00000	0.69898	0.69898

FILLCAP4H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Footprint

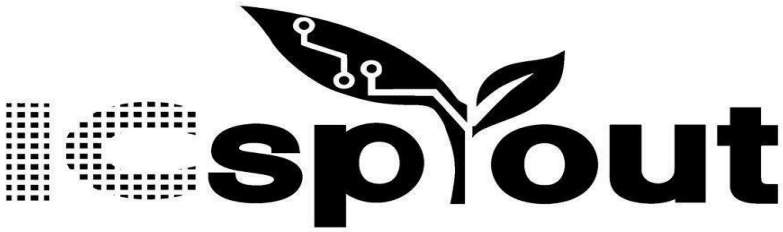
Cell Name	Area
FILLCAP4H7R	1.12000

Pin Capacitance Information

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
FILLCAP4H7R	0.00000	0.03859	0.03859

FILLCAP8H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Footprint

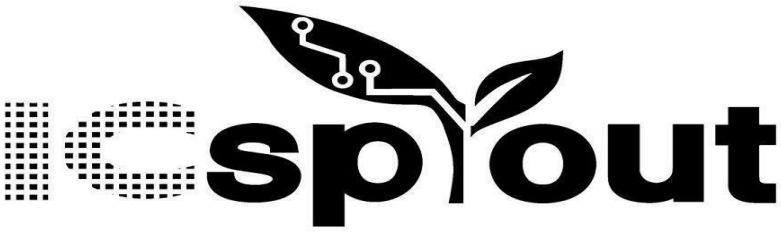
Cell Name	Area
FILLCAP8H7R	2.24000

Pin Capacitance Information

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
FILLCAP8H7R	0.00000	0.12912	0.12912

ICGNX0P5H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative edge-triggered clock-gating Latch, In: E, CKN, Out: ECK

Truth Table

INPUT		OUTPUT
CKN	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGNX0P5H7R	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	E	ECK
ICGNX0P5H7R	0.00179	0.00075	0.05946

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGNX0P5H7R	0.00000	0.73035	0.92412

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX0P5H7R	CKN->ECK (RR)	0.02661	0.16237	0.49830

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX0P5H7R	CKN->ECK (FF)	0.03942	0.16380	0.46890

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
ICGNX0P5H7R	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX0P5H7R	**hold**	**CKN (F)**	-0.01924	0.03856	0.11820
	setup	**CKN (F)**	0.03257	0.08276	0.17959

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX0P5H7R	**hold**	**CKN (F)**	-0.02234	0.00401	0.04589
	setup	**CKN (F)**	0.02376	0.06314	0.14047

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX0P5H7R	CKN	0.00351	0.00384	0.00472
	CKN	-0.00001	-0.00000	0.00000
	CKN	0.00003	0.00004	0.00005
	CKN	0.00462	0.00491	0.00580

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX0P5H7R	CKN	0.00305	0.00333	0.00429
	CKN	0.00000	0.00000	0.00001
	CKN	-0.00002	0.00002	0.00002
	CKN	0.00176	0.00204	0.00301

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX0P5H7R	0.00268	0.00280	0.00327
	0.00002	0.00002	0.00003
	0.00000	0.00000	0.00000
	0.00384	0.00396	0.00443

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX0P5H7R	0.00188	0.00200	0.00245
	0.00002	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00091	0.00103	0.00148

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX0P5H7R	0.00100	0.00106	0.00130
	0.00009	0.00010	0.00010
	-0.00006	-0.00006	-0.00006
	0.00172	0.00178	0.00203

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX0P5H7R	0.00202	0.00208	0.00234
	-0.00010	-0.00009	-0.00009
	0.00006	0.00006	0.00006
	0.00128	0.00135	0.00160

ICGNX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative edge-triggered clock-gating Latch, In: E, CKN, Out: ECK

Truth Table

INPUT		OUTPUT
CKN	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGNX1H7R	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	E	ECK
ICGNX1H7R	0.00179	0.00075	0.07032

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGNX1H7R	0.00000	0.75409	0.93658

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX1H7R	CKN->ECK (RR)	0.02603	0.16263	0.50100

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX1H7R	CKN->ECK (FF)	0.03958	0.16612	0.47526

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
ICGNX1H7R	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX1H7R	**hold**	**CKN (F)**	-0.01924	0.03856	0.11820
	setup	**CKN (F)**	0.03252	0.08265	0.17996

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX1H7R	**hold**	**CKN (F)**	-0.02215	0.00426	0.04721
	setup	**CKN (F)**	0.02520	0.06362	0.14143

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX1H7R	CKN	0.00356	0.00389	0.00479
	CKN	-0.00003	-0.00001	0.00001
	CKN	0.00003	0.00005	0.00012
	CKN	0.00467	0.00496	0.00586

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX1H7R	CKN	0.00311	0.00338	0.00436
	CKN	0.00000	0.00001	0.00003
	CKN	0.00002	0.00002	0.00004
	CKN	0.00182	0.00210	0.00307

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX1H7R	0.00268	0.00281	0.00327
	0.00002	0.00002	0.00002
	0.00000	0.00000	0.00000
	0.00383	0.00397	0.00443

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX1H7R	0.00187	0.00200	0.00245
	0.00002	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00090	0.00103	0.00147

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX1H7R	0.00100	0.00106	0.00131
	0.00009	0.00009	0.00010
	-0.00006	-0.00006	-0.00006
	0.00172	0.00179	0.00203

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX1H7R	0.00202	0.00208	0.00233
	-0.00010	-0.00009	-0.00009
	0.00006	0.00006	0.00006
	0.00128	0.00135	0.00160

ICGNX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative edge-triggered clock-gating Latch, In: E, CKN, Out: ECK

Truth Table

INPUT		OUTPUT
CKN	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGNX2H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	E	ECK
ICGNX2H7R	0.00179	0.00075	0.08900

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGNX2H7R	0.00000	0.81501	0.95245

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX2H7R	CKN->ECK (RR)	0.02770	0.16812	0.51270

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX2H7R	CKN->ECK (FF)	0.04380	0.17377	0.48676

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
ICGNX2H7R	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX2H7R	**hold**	**CKN (F)**	-0.01924	0.03856	0.11820
	setup	**CKN (F)**	0.02874	0.07976	0.17948

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX2H7R	**hold**	**CKN (F)**	-0.02699	0.00342	0.04882
	setup	**CKN (F)**	0.02511	0.06332	0.14096

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX2H7R	CKN	0.00372	0.00407	0.00500
	CKN	-0.00005	-0.00002	-0.00000
	CKN	0.00004	0.00006	0.00011
	CKN	0.00481	0.00512	0.00607

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX2H7R	CKN	0.00334	0.00362	0.00467
	CKN	0.00001	0.00002	0.00005
	CKN	0.00001	0.00002	0.00006
	CKN	0.00202	0.00235	0.00339

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX2H7R	0.00267	0.00280	0.00326
	0.00002	0.00002	0.00002
	0.00000	0.00000	0.00000
	0.00383	0.00396	0.00443

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX2H7R	0.00187	0.00200	0.00245
	0.00002	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00090	0.00103	0.00147

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX2H7R	0.00100	0.00106	0.00130
	0.00009	0.00009	0.00009
	-0.00006	-0.00006	-0.00006
	0.00172	0.00179	0.00203

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX2H7R	0.00202	0.00208	0.00233
	-0.00009	-0.00009	-0.00009
	0.00006	0.00006	0.00006
	0.00128	0.00135	0.00160

ICGNX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative edge-triggered clock-gating Latch, In: E, CKN, Out: ECK

Truth Table

INPUT		OUTPUT
CKN	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGNX3H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	E	ECK
ICGNX3H7R	0.00186	0.00075	0.12587

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGNX3H7R	0.00000	0.90069	1.02362

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX3H7R	CKN->ECK (RR)	0.02641	0.16781	0.51396

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX3H7R	CKN->ECK (FF)	0.04255	0.17508	0.49240

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
ICGNX3H7R	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX3H7R	**hold**	**CKN (F)**	-0.01793	0.03932	0.11820
	setup	**CKN (F)**	0.02992	0.08159	0.18450

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX3H7R	**hold**	**CKN (F)**	-0.02944	0.00243	0.04533
	setup	**CKN (F)**	0.02656	0.06481	0.14318

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX3H7R	CKN	0.00391	0.00426	0.00530
	CKN	-0.00009	-0.00004	-0.00003
	CKN	0.00001	0.00006	0.00015
	CKN	0.00500	0.00533	0.00639

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX3H7R	CKN	0.00344	0.00378	0.00496
	CKN	0.00003	0.00004	0.00009
	CKN	-0.00003	0.00001	0.00005
	CKN	0.00214	0.00248	0.00365

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX3H7R	0.00273	0.00286	0.00333
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	0.00392	0.00405	0.00452

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX3H7R	0.00188	0.00200	0.00246
	0.00003	0.00003	0.00004
	0.00000	0.00000	0.00000
	0.00087	0.00100	0.00145

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX3H7R	0.00103	0.00110	0.00134
	0.00009	0.00010	0.00010
	-0.00006	-0.00006	-0.00006
	0.00176	0.00182	0.00206

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX3H7R	0.00201	0.00208	0.00233
	-0.00010	-0.00010	-0.00009
	0.00006	0.00006	0.00007
	0.00127	0.00134	0.00160

ICGNX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative edge-triggered clock-gating Latch, In: E, CKN, Out: ECK

Truth Table

INPUT		OUTPUT
CKN	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGNX4H7R	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CKN	E	ECK
ICGNX4H7R	0.00186	0.00075	0.17065

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGNX4H7R	0.00000	0.98450	1.08161

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX4H7R	CKN->ECK (RR)	0.02785	0.17320	0.52621

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGNX4H7R	CKN->ECK (FF)	0.04763	0.18887	0.52409

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
ICGNX4H7R	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX4H7R	**hold**	**CKN (F)**	-0.01793	0.03907	0.11820
	setup	**CKN (F)**	0.02481	0.07941	0.18159

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGNX4H7R	**hold**	**CKN (F)**	-0.02678	0.00292	0.04939
	setup	**CKN (F)**	0.02698	0.06422	0.14213

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX4H7R	CKN	0.00418	0.00456	0.00573
	CKN	-0.00007	-0.00005	0.00002
	CKN	0.00000	0.00008	0.00009
	CKN	0.00527	0.00599	0.02507

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGNX4H7R	CKN	0.00376	0.00408	0.00541
	CKN	0.00000	0.00005	0.00007
	CKN	-0.00002	-0.00001	0.00000
	CKN	0.00249	0.00281	0.00414

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX4H7R	0.00275	0.00287	0.00334
	0.00001	0.00001	0.00002
	0.00000	0.00000	0.00000
	0.00393	0.00407	0.00453

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX4H7R	0.00188	0.00200	0.00245
	0.00003	0.00003	0.00004
	0.00000	0.00000	0.00000
	0.00087	0.00100	0.00144

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX4H7R	0.00104	0.00110	0.00134
	0.00009	0.00010	0.00010
	-0.00006	-0.00006	-0.00006
	0.00176	0.00182	0.00206

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGNX4H7R	0.00202	0.00209	0.00234
	-0.00010	-0.00010	-0.00009
	0.00006	0.00006	0.00006
	0.00128	0.00135	0.00160

ICGX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Positive edge-triggered clock-gating Latch, In: E, CK, Out: ECK

Truth Table

INPUT		OUTPUT
CK	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGX0P5H7R	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	E	ECK
ICGX0P5H7R	0.00155	0.00071	0.05954

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGX0P5H7R	0.00000	0.65136	0.77936

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX0P5H7R	CK->ECK (RR)	0.03080	0.16662	0.50333

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX0P5H7R	CK->ECK (FF)	0.02931	0.14935	0.44805

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ICGX0P5H7R	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX0P5H7R	**hold**	**CK (R)**	-0.06709	-0.02308	0.00708
	setup	**CK (R)**	0.04961	0.09126	0.17777

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX0P5H7R	**hold**	**CK (R)**	-0.07807	0.00239	0.06335
	setup	**CK (R)**	0.00317	0.04786	0.12122

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX0P5H7R	CK	0.00188	0.00212	0.00298
	CK	0.00000	0.00002	0.00004
	CK	-0.00003	-0.00000	0.00000
	CK	0.00303	0.00327	0.00413

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX0P5H7R	CK	0.00412	0.00442	0.00531
	CK	-0.00004	-0.00002	0.00000
	CK	0.00001	0.00005	0.00009
	CK	0.00289	0.00314	0.00403

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX0P5H7R	0.00138	0.00149	0.00190
	-0.00001	-0.00001	-0.00000
	0.00002	0.00003	0.00003
	0.00229	0.00241	0.00282

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX0P5H7R	0.00327	0.00341	0.00395
	0.00009	0.00010	0.00010
	-0.00003	-0.00003	-0.00002
	0.00256	0.00270	0.00324

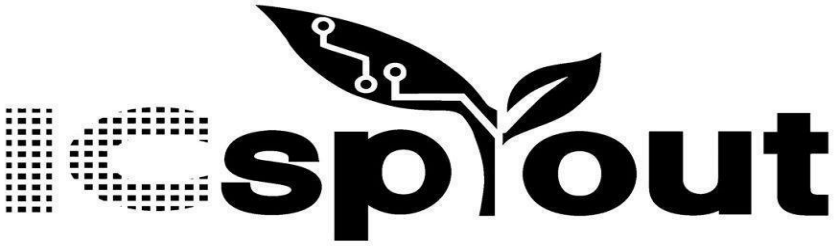
Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX0P5H7R	0.00104	0.00110	0.00136
	0.00007	0.00008	0.00008
	-0.00005	-0.00004	-0.00004
	0.00165	0.00172	0.00198

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX0P5H7R	0.00162	0.00169	0.00196
	-0.00008	-0.00008	-0.00007
	0.00004	0.00004	0.00005
	0.00101	0.00108	0.00135

ICGX1H7R



Cell Description

Positive edge-triggered clock-gating Latch, In: E, CK, Out: ECK

Truth Table

INPUT		OUTPUT
CK	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGX1H7R	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	E	ECK
ICGX1H7R	0.00158	0.00071	0.07035

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGX1H7R	0.00000	0.67330	0.80770

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX1H7R	CK->ECK (RR)	0.02908	0.16415	0.49818

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX1H7R	CK->ECK (FF)	0.02908	0.15103	0.45407

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ICGX1H7R	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX1H7R	**hold**	**CK (R)**	-0.06492	-0.02311	0.00708
	setup	**CK (R)**	0.04981	0.09199	0.18143

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX1H7R	**hold**	**CK (R)**	-0.07628	0.00337	0.06523
	setup	**CK (R)**	0.00613	0.04899	0.12021

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX1H7R	CK	0.00186	0.00216	0.00305
	CK	0.00000	0.00001	0.00007
	CK	-0.00004	0.00000	0.00000
	CK	0.00309	0.00334	0.00423

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX1H7R	CK	0.00416	0.00443	0.00535
	CK	-0.00007	-0.00001	0.00000
	CK	-0.00000	0.00005	0.00008
	CK	0.00283	0.00314	0.00406

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX1H7R	0.00137	0.00149	0.00191
	-0.00002	-0.00001	0.00000
	0.00002	0.00002	0.00002
	0.00232	0.00243	0.00285

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX1H7R	0.00324	0.00339	0.00393
	0.00010	0.00010	0.00012
	-0.00002	-0.00002	-0.00002
	0.00252	0.00267	0.00321

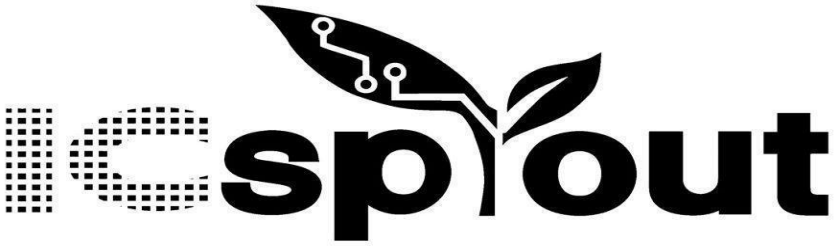
Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX1H7R	0.00103	0.00109	0.00135
	0.00007	0.00008	0.00008
	-0.00005	-0.00004	-0.00004
	0.00163	0.00170	0.00196

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX1H7R	0.00160	0.00168	0.00195
	-0.00008	-0.00008	-0.00007
	0.00004	0.00004	0.00005
	0.00100	0.00107	0.00134

ICGX2H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Positive edge-triggered clock-gating Latch, In: E, CK, Out: ECK

Truth Table

INPUT		OUTPUT
CK	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGX2H7R	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	E	ECK
ICGX2H7R	0.00171	0.00071	0.08099

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGX2H7R	0.00000	0.68924	0.83519

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX2H7R	CK->ECK (RR)	0.02968	0.16573	0.50171

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX2H7R	CK->ECK (FF)	0.02979	0.15308	0.45865

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ICGX2H7R	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX2H7R	**hold**	**CK (R)**	-0.06525	-0.02220	0.00556
	setup	**CK (R)**	0.04884	0.09084	0.18246

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX2H7R	**hold**	**CK (R)**	-0.07842	0.00400	0.06334
	setup	**CK (R)**	0.00421	0.04776	0.11831

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX2H7R	CK	0.00196	0.00221	0.00310
	CK	0.00000	0.00001	0.00005
	CK	-0.00000	0.00002	0.00050
	CK	0.00282	0.00345	0.00435

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX2H7R	CK	0.00425	0.00455	0.00548
	CK	-0.00005	-0.00001	0.00001
	CK	0.00000	0.00005	0.00009
	CK	0.00292	0.00318	0.00410

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX2H7R	0.00136	0.00147	0.00188
	-0.00001	-0.00001	-0.00000
	0.00002	0.00002	0.00002
	0.00237	0.00248	0.00290

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX2H7R	0.00328	0.00343	0.00396
	0.00009	0.00010	0.00011
	-0.00002	-0.00002	-0.00002
	0.00248	0.00263	0.00316

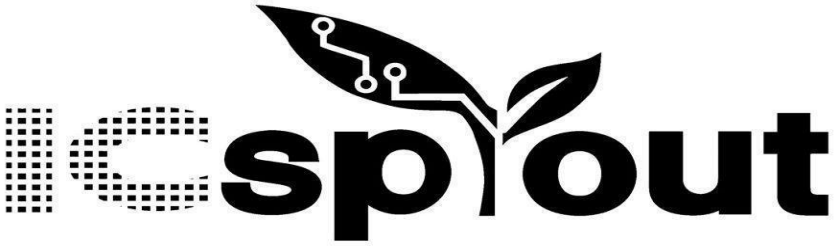
Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX2H7R	0.00101	0.00108	0.00134
	0.00007	0.00008	0.00008
	-0.00005	-0.00005	-0.00004
	0.00163	0.00169	0.00195

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX2H7R	0.00162	0.00169	0.00196
	-0.00008	-0.00008	-0.00007
	0.00004	0.00005	0.00005
	0.00100	0.00108	0.00135

ICGX3H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Positive edge-triggered clock-gating Latch, In: E, CK, Out: ECK

Truth Table

INPUT		OUTPUT
CK	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGX3H7R	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	E	ECK
ICGX3H7R	0.00176	0.00071	0.12591

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGX3H7R	0.00000	0.77564	0.97190

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX3H7R	CK->ECK (RR)	0.03059	0.16972	0.50749

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX3H7R	CK->ECK (FF)	0.03548	0.16801	0.48999

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ICGX3H7R	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX3H7R	**hold**	**CK (R)**	-0.06525	-0.02196	0.00556
	setup	**CK (R)**	0.04864	0.09224	0.18891

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX3H7R	**hold**	**CK (R)**	-0.07442	0.00465	0.06734
	setup	**CK (R)**	0.00156	0.04569	0.11614

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX3H7R	CK	0.00231	0.00260	0.00360
	CK	-0.00002	-0.00000	0.00001
	CK	0.00001	0.00002	0.00006
	CK	0.00356	0.00384	0.00485

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX3H7R	CK	0.00468	0.00501	0.00610
	CK	-0.00001	0.00000	0.00005
	CK	-0.00001	0.00004	0.00009
	CK	0.00335	0.00365	0.00473

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX3H7R	0.00135	0.00146	0.00187
	-0.00002	-0.00001	-0.00000
	0.00002	0.00003	0.00003
	0.00237	0.00248	0.00289

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX3H7R	0.00330	0.00346	0.00400
	0.00009	0.00010	0.00011
	-0.00003	-0.00003	-0.00002
	0.00252	0.00267	0.00321

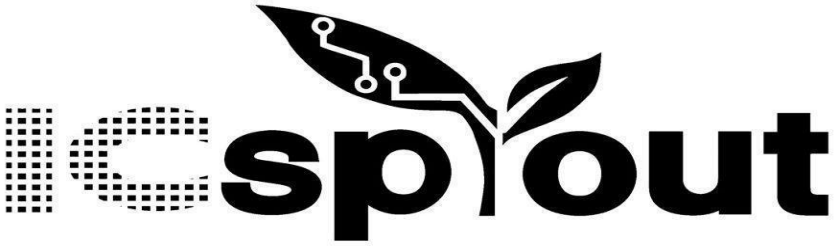
Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX3H7R	0.00104	0.00110	0.00136
	0.00007	0.00008	0.00008
	-0.00004	-0.00004	-0.00003
	0.00164	0.00171	0.00197

Passive power(pJ) for E falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX3H7R	0.00162	0.00169	0.00196
	-0.00008	-0.00008	-0.00007
	0.00003	0.00004	0.00004
	0.00102	0.00109	0.00136

ICGX4H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Positive edge-triggered clock-gating Latch, In: E, CK, Out: ECK

Truth Table

INPUT		OUTPUT
CK	E	ECK
x	x	-

Footprint

Cell Name	Area
ICGX4H7R	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	CK	E	ECK
ICGX4H7R	0.00176	0.00071	0.16138

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
ICGX4H7R	0.00000	0.83035	1.06804

Delay Information

Delay(ns) to ECK rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX4H7R	CK->ECK (RR)	0.03188	0.17347	0.51497

Delay(ns) to ECK falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
ICGX4H7R	CK->ECK (FF)	0.03730	0.17223	0.49722

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
ICGX4H7R	0.9851	0.9851

Constraints(ns) for E rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX4H7R	**hold**	**CK (R)**	-0.06525	-0.02212	0.00556
	setup	**CK (R)**	0.04604	0.09165	0.18769

Constraints(ns) for E falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
ICGX4H7R	**hold**	**CK (R)**	-0.07442	0.00490	0.06734
	setup	**CK (R)**	-0.00425	0.04269	0.11731

Power Information

Internal switching power(pJ) to ECK rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX4H7R	CK	0.00251	0.00281	0.00391
	CK	-0.00004	-0.00000	0.00000
	CK	-0.00002	0.00003	0.00004
	CK	0.00373	0.00402	0.00513

Internal switching power(pJ) to ECK falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
ICGX4H7R	CK	0.00487	0.00518	0.00638
	CK	0.00000	0.00000	0.00004
	CK	0.00000	0.00002	0.00006
	CK	0.00355	0.00385	0.00504

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX4H7R	0.00134	0.00145	0.00186
	-0.00001	-0.00000	0.00001
	0.00002	0.00003	0.00003
	0.00237	0.00248	0.00289

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
ICGX4H7R	0.00330	0.00346	0.00400
	0.00009	0.00010	0.00011
	-0.00003	-0.00003	-0.00002
	0.00252	0.00267	0.00320

Passive power(pJ) for E rising :

Cell Name	Power(pJ)		
	min	avg	max
ICGX4H7R	0.00104	0.00110	0.00136
	0.00007	0.00008	0.00008
	-0.00004	-0.00004	-0.00003
	0.00165	0.00171	0.00197

Passive power(pJ) for E falling :

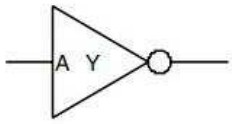
Cell Name	Power(pJ)		
	min	avg	max
ICGX4H7R	0.00162	0.00169	0.00196
	-0.00008	-0.00008	-0.00007
	0.00003	0.00004	0.00004
	0.00102	0.00109	0.00136

INVX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX0P5H7R	0.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX0P5H7R	0.00071	0.04088

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX0P5H7R	0.00000	0.09215	0.14017

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX0P5H7R	A->Y (FR)	0.01544	0.17101	0.66679

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX0P5H7R	A->Y (RF)	0.01221	0.12857	0.54415

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX0P5H7R	A	0.00041	0.00049	0.00098
	A	-0.00002	-0.00002	-0.00002
	A	0.00002	0.00002	0.00002
	A	-0.00012	-0.00003	0.00044

Internal switching power(pJ) to Y falling :

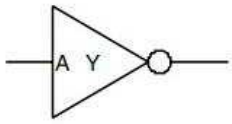
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX0P5H7R	A	-0.00008	-0.00001	0.00042
	A	0.00002	0.00002	0.00002
	A	-0.00002	-0.00002	-0.00001
	A	0.00038	0.00051	0.00097

INVX0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX0P7H7R	0.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX0P7H7R	0.00077	0.04641

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX0P7H7R	0.00000	0.10447	0.15785

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX0P7H7R	**A->Y (FR)**	0.01434	0.16998	0.66821

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX0P7H7R	**A->Y (RF)**	0.01144	0.12737	0.54388

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX0P7H7R	A	0.00043	0.00053	0.00108
	A	-0.00002	-0.00002	-0.00002
	A	0.00002	0.00002	0.00002
	A	-0.00014	-0.00005	0.00049

Internal switching power(pJ) to Y falling :

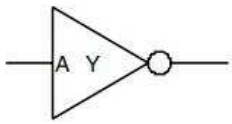
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX0P7H7R	A	-0.00009	-0.00001	0.00049
	A	0.00002	0.00002	0.00002
	A	-0.00002	-0.00002	-0.00002
	A	0.00044	0.00056	0.00108

INVX10H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX10H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX10H7R	0.00489	0.37212

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX10H7R	0.00000	0.84069	1.25569

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX10H7R	**A->Y (FR)**	0.00873	0.16400	0.67016

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX10H7R	**A->Y (RF)**	-0.00041	0.11942	0.53534

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX10H7R	A	0.00255	0.00343	0.00854
	A	-0.00021	-0.00020	-0.00020
	A	0.00015	0.00016	0.00016
	A	-0.00106	-0.00029	0.00467

Internal switching power(pJ) to Y falling :

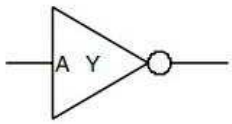
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX10H7R	A	-0.00074	-0.00006	0.00466
	A	0.00020	0.00020	0.00021
	A	-0.00016	-0.00015	-0.00015
	A	0.00243	0.00363	0.00851

INVX12H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX12H7R	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX12H7R	0.00797	0.49042

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX12H7R	0.00000	1.10578	1.68202

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX12H7R	**A->Y (FR)**	0.00963	0.16393	0.66630

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX12H7R	**A->Y (RF)**	0.00367	0.12251	0.54390

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX12H7R	A	0.00421	0.00534	0.01246
	A	-0.00025	-0.00025	-0.00024
	A	0.00019	0.00019	0.00020
	A	-0.00177	-0.00060	0.00629

Internal switching power(pJ) to Y falling :

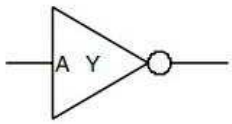
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX12H7R	A	-0.00109	-0.00008	0.00643
	A	0.00024	0.00025	0.00025
	A	-0.00020	-0.00019	-0.00017
	A	0.00421	0.00581	0.01256

INVX16H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX16H7R	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX16H7R	0.00892	0.47519

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX16H7R	0.00000	1.56834	2.57294

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX16H7R	**A->Y (FR)**	0.01075	0.16803	0.67362

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX16H7R	**A->Y (RF)**	-0.01713	0.08458	0.40920

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX16H7R	A	0.00493	0.00614	0.01407
	A	-0.00026	-0.00026	-0.00025
	A	0.00031	0.00032	0.00032
	A	-0.00200	-0.00065	0.00712

Internal switching power(pJ) to Y falling :

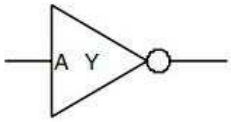
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX16H7R	A	-0.00105	0.00009	0.00742
	A	0.00025	0.00026	0.00026
	A	-0.00032	-0.00032	-0.00029
	A	0.00515	0.00683	0.01436

INVX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX1H7R	0.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX1H7R	0.00078	0.05543

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX1H7R	0.00000	0.12207	0.18206

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX1H7R	**A->Y (FR)**	0.01256	0.16810	0.66875

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX1H7R	**A->Y (RF)**	0.01030	0.12746	0.54755

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX1H7R	A	0.00042	0.00054	0.00120
	A	-0.00003	-0.00003	-0.00003
	A	0.00002	0.00002	0.00002
	A	-0.00015	-0.00005	0.00059

Internal switching power(pJ) to Y falling :

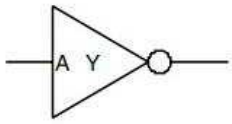
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX1H7R	A	-0.00010	-0.00001	0.00059
	A	0.00003	0.00003	0.00003
	A	-0.00002	-0.00002	-0.00002
	A	0.00035	0.00057	0.00120

INVX1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX1P4H7R	0.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX1P4H7R	0.00088	0.06333

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX1P4H7R	0.00000	0.13886	0.20606

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX1P4H7R	**A->Y (FR)**	0.01204	0.16772	0.66943

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX1P4H7R	**A->Y (RF)**	0.00993	0.12668	0.54632

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX1P4H7R	A	0.00046	0.00061	0.00136
	A	-0.00003	-0.00003	-0.00003
	A	0.00003	0.00003	0.00003
	A	-0.00017	-0.00006	0.00067

Internal switching power(pJ) to Y falling :

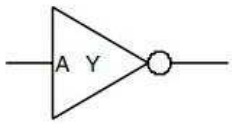
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX1P4H7R	A	-0.00012	-0.00002	0.00068
	A	0.00003	0.00003	0.00003
	A	-0.00003	-0.00003	-0.00002
	A	0.00040	0.00064	0.00136

INVX20H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX20H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX20H7R	0.00928	0.74346

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX20H7R	0.00000	1.66332	2.47506

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX20H7R	**A->Y (FR)**	0.00798	0.16306	0.66950

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX20H7R	**A->Y (RF)**	-0.00249	0.11962	0.53762

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX20H7R	A	0.00463	0.00653	0.01688
	A	-0.00041	-0.00041	-0.00039
	A	0.00030	0.00031	0.00032
	A	-0.00207	-0.00054	0.00950

Internal switching power(pJ) to Y falling :

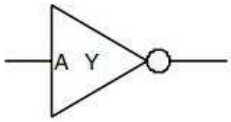
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX20H7R	A	-0.00145	-0.00008	0.00948
	A	0.00040	0.00041	0.00041
	A	-0.00032	-0.00031	-0.00030
	A	0.00467	0.00695	0.01683

INVX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX2H7R	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX2H7R	0.00134	0.08171

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX2H7R	0.00000	0.18430	0.28034

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX2H7R	**A->Y (FR)**	0.01231	0.16725	0.66627

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX2H7R	**A->Y (RF)**	0.01010	0.12541	0.54399

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX2H7R	A	0.00075	0.00094	0.00202
	A	-0.00004	-0.00004	-0.00004
	A	0.00003	0.00003	0.00003
	A	-0.00023	-0.00006	0.00098

Internal switching power(pJ) to Y falling :

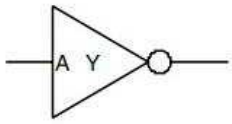
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX2H7R	A	-0.00017	-0.00002	0.00096
	A	0.00004	0.00004	0.00004
	A	-0.00003	-0.00003	-0.00003
	A	0.00071	0.00097	0.00199

INVX2P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX2P5H7R	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX2P5H7R	0.00146	0.09914

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX2P5H7R	0.00000	0.22155	0.33308

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX2P5H7R	A->Y (FR)	0.01088	0.16575	0.66789

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX2P5H7R	A->Y (RF)	0.00898	0.12438	0.54457

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX2P5H7R	A	0.00074	0.00097	0.00228
	A	-0.00005	-0.00005	-0.00005
	A	0.00004	0.00004	0.00004
	A	-0.00033	-0.00013	0.00114

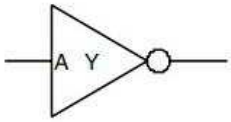
Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX2P5H7R	A	-0.00019	-0.00002	0.00118
	A	0.00005	0.00005	0.00005
	A	-0.00004	-0.00004	-0.00004
	A	0.00075	0.00106	0.00231

INVX3H7R

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX3H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX3H7R	0.00187	0.12263

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX3H7R	0.00000	0.25868	0.38480

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX3H7R	**A->Y (FR)**	0.01115	0.16533	0.66553

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX3H7R	**A->Y (RF)**	0.00955	0.13047	0.56255

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX3H7R	A	0.00106	0.00134	0.00288
	A	-0.00006	-0.00006	-0.00006
	A	0.00005	0.00005	0.00005
	A	-0.00030	-0.00007	0.00143

Internal switching power(pJ) to Y falling :

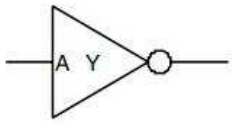
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX3H7R	A	-0.00026	-0.00004	0.00138
	A	0.00006	0.00006	0.00006
	A	-0.00005	-0.00005	-0.00005
	A	0.00100	0.00136	0.00283

INVX3P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX3P5H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX3P5H7R	0.00189	0.13248

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX3P5H7R	0.00000	0.31200	0.47340

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX3P5H7R	A->Y (FR)	0.01027	0.16588	0.67078

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX3P5H7R	A->Y (RF)	0.00452	0.11822	0.52781

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX3P5H7R	A	0.00096	0.00129	0.00311
	A	-0.00007	-0.00007	-0.00007
	A	0.00005	0.00006	0.00006
	A	-0.00042	-0.00014	0.00163

Internal switching power(pJ) to Y falling :

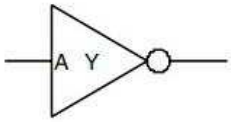
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX3P5H7R	A	-0.00025	-0.00002	0.00165
	A	0.00007	0.00007	0.00007
	A	-0.00006	-0.00006	-0.00005
	A	0.00102	0.00140	0.00313

INVX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX4H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX4H7R	0.00259	0.16355

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX4H7R	0.00000	0.36859	0.56067

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX4H7R	**A->Y (FR)**	0.01050	0.16502	0.66616

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX4H7R	**A->Y (RF)**	0.00865	0.12346	0.54438

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX4H7R	A	0.00138	0.00176	0.00405
	A	-0.00008	-0.00008	-0.00008
	A	0.00006	0.00006	0.00007
	A	-0.00053	-0.00017	0.00205

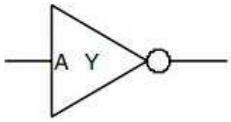
Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX4H7R	A	-0.00034	-0.00003	0.00207
	A	0.00008	0.00008	0.00008
	A	-0.00006	-0.00006	-0.00006
	A	0.00144	0.00189	0.00407

INVX5H7R

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX5H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX5H7R	0.00250	0.19068

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX5H7R	0.00000	0.42230	0.62840

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX5H7R	**A->Y (FR)**	0.00935	0.16432	0.67021

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX5H7R	**A->Y (RF)**	0.00498	0.12242	0.54314

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX5H7R	A	0.00135	0.00174	0.00428
	A	-0.00010	-0.00010	-0.00010
	A	0.00008	0.00008	0.00008
	A	-0.00054	-0.00016	0.00231

Internal switching power(pJ) to Y falling :

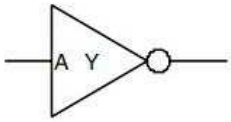
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX5H7R	A	-0.00036	-0.00003	0.00231
	A	0.00010	0.00010	0.00010
	A	-0.00008	-0.00008	-0.00008
	A	0.00128	0.00184	0.00428

INVX6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX6H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX6H7R	0.00387	0.24540

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX6H7R	0.00000	0.55289	0.84101

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX6H7R	**A->Y (FR)**	0.01003	0.16444	0.66625

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX6H7R	**A->Y (RF)**	0.00610	0.12297	0.54405

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX6H7R	A	0.00206	0.00264	0.00613
	A	-0.00013	-0.00013	-0.00011
	A	0.00009	0.00010	0.00010
	A	-0.00082	-0.00026	0.00314

Internal switching power(pJ) to Y falling :

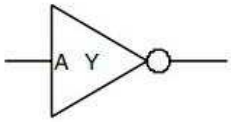
Cell Name	Input	Power(pJ)		
		min	avg	max
INVX6H7R	A	-0.00052	-0.00004	0.00317
	A	0.00012	0.00013	0.00013
	A	-0.00010	-0.00010	-0.00009
	A	0.00202	0.00283	0.00616

INVX7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX7H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX7H7R	0.00403	0.29744

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX7H7R	0.00000	0.67616	1.01181

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX7H7R	**A->Y (FR)**	0.00911	0.16447	0.67025

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX7H7R	**A->Y (RF)**	0.00078	0.11925	0.53417

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX7H7R	A	0.00216	0.00283	0.00688
	A	-0.00016	-0.00016	-0.00016
	A	0.00012	0.00013	0.00013
	A	-0.00085	-0.00023	0.00371

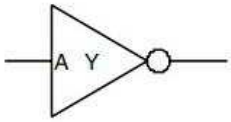
Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX7H7R	A	-0.00060	-0.00005	0.00369
	A	0.00016	0.00016	0.00017
	A	-0.00013	-0.00012	-0.00012
	A	0.00198	0.00297	0.00686

INVX8H7R

Cell Description

The INV cell provides the logical inversion of a single input (A). The output (Y) is represented by the logic equation:



Truth Table

INPUT	OUTPUT
A	Y
0	1
1	0

Footprint

Cell Name	Area
INVX8H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)	Max Cap(pf)
	A	Y
INVX8H7R	0.00512	0.32716

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
INVX8H7R	0.00000	0.73719	1.12135

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX8H7R	**A->Y (FR)**	0.00961	0.16392	0.66613

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
INVX8H7R	**A->Y (RF)**	0.00407	0.12248	0.54432

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX8H7R	A	0.00267	0.00345	0.00818
	A	-0.00017	-0.00017	-0.00016
	A	0.00012	0.00013	0.00013
	A	-0.00114	-0.00038	0.00421

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
INVX8H7R	A	-0.00070	-0.00004	0.00430
	A	0.00016	0.00017	0.00017
	A	-0.00013	-0.00013	-0.00012
	A	0.00268	0.00374	0.00825

LATHRX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !RN ? 0 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	RN	Q	QN
x	x	0	0	1
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHRX0P5H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	**G**	**RN**	**Q**	**QN**
LATHRX0P5H7R	0.00075	0.00096	0.00090	0.05942	0.05974

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
LATHRX0P5H7R	0.00000	0.75147	1.13365

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX0P5H7R	D->Q (RR)	-	0.06742	0.22735	0.60792
	G->Q (RR)	RN	0.08232	0.23408	0.57998
	RN->Q (RR)	-	0.06908	0.22692	0.60256

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX0P5H7R	D->Q (FF)	-	0.05716	0.19739	0.52432
	G->Q (RF)	RN	0.07514	0.20444	0.49091
	RN->Q (FF)	-	0.05378	0.19783	0.53859

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX0P5H7R	D->QN (FR)	-	0.08654	0.24003	0.61903
	G->QN (RR)	RN	0.10463	0.24952	0.60211
	RN->QN (FR)	-	0.08119	0.24110	0.63281

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX0P5H7R	D->QN (RF)	-	0.09570	0.22050	0.51721
	G->QN (RF)	RN	0.11085	0.22841	0.50058
	RN->QN (RF)	-	0.09736	0.22015	0.51385

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX0P5H7R	hold	G (F)	-0.10852	-0.01915	0.06988
	setup	G (F)	-0.03705	0.04145	0.14082

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX0P5H7R	hold	G (F)	-0.10016	-0.02980	0.02776
	setup	G (F)	0.02267	0.06483	0.15029

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHRX0P5H7R	0.9851	-

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX0P5H7R	recovery	G (F)	-0.03321	0.04119	0.13866
	removal	G (F)	-0.10852	-0.02028	0.06704

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHRX0P5H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX0P5H7R	D	-	0.00106	0.00113	0.00136
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00004	-0.00003	-0.00003
	D	-	0.00144	0.00151	0.00174
	G	RN	0.00145	0.00155	0.00184
	G	RN	0.00001	0.00002	0.00004
	G	RN	-0.00002	-0.00001	0.00000
	G	RN	0.00192	0.00202	0.00231
	RN	-	0.00107	0.00112	0.00122
	RN	-	0.00005	0.00006	0.00006
	RN	-	-0.00006	-0.00005	-0.00003
	RN	-	0.00160	0.00165	0.00177

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX0P5H7R	D	-	0.00136	0.00144	0.00170
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00003	0.00003	0.00004
	D	-	0.00099	0.00107	0.00132
	G	RN	0.00154	0.00163	0.00189
	G	RN	-0.00004	-0.00002	-0.00001
	G	RN	0.00000	0.00001	0.00002
	G	RN	0.00181	0.00191	0.00217
	RN	-	0.00144	0.00151	0.00169
	RN	-	-0.00005	-0.00004	-0.00002
	RN	-	0.00003	0.00005	0.00006
	RN	-	0.00100	0.00108	0.00127

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX0P5H7R	D	-	0.00136	0.00144	0.00170
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00003	0.00003	0.00003
	D	-	0.00098	0.00107	0.00132
	G	RN	0.00154	0.00164	0.00190
	G	RN	-0.00003	-0.00003	-0.00002
	G	RN	0.00001	0.00001	0.00001
	G	RN	0.00181	0.00191	0.00219
	RN	-	0.00144	0.00151	0.00170
	RN	-	-0.00004	-0.00004	-0.00002
	RN	-	0.00005	0.00005	0.00007
	RN	-	0.00100	0.00108	0.00127

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX0P5H7R	D	-	0.00106	0.00113	0.00136
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00003	-0.00003	-0.00003
	D	-	0.00143	0.00151	0.00174
	G	RN	0.00146	0.00155	0.00184
	G	RN	0.00002	0.00003	0.00003
	G	RN	-0.00001	-0.00001	-0.00001
	G	RN	0.00192	0.00202	0.00231
	RN	-	0.00107	0.00112	0.00123
	RN	-	0.00005	0.00006	0.00006
	RN	-	-0.00006	-0.00005	-0.00005
	RN	-	0.00160	0.00165	0.00176

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7R	-0.00002	0.00013	0.00066
	0.00006	0.00006	0.00007
	-0.00005	-0.00004	-0.00004
	0.00056	0.00072	0.00125

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7R	0.00049	0.00066	0.00124
	-0.00006	-0.00006	-0.00006
	0.00004	0.00005	0.00005
	-0.00010	0.00007	0.00064

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7R	0.00073	0.00086	0.00133
	-0.00000	0.00000	0.00000
	-0.00001	-0.00000	0.00000
	0.00149	0.00162	0.00209

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7R	0.00170	0.00184	0.00234
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00001
	0.00095	0.00110	0.00160

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7R	-0.00015	-0.00015	-0.00015
	-0.00001	-0.00000	-0.00000
	0.00001	0.00002	0.00003
	0.00035	0.00036	0.00037

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX0P5H7R	0.00019	0.00020	0.00020
	0.00000	0.00000	0.00001
	-0.00002	-0.00002	-0.00001
	-0.00032	-0.00031	-0.00029

LATHRX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !RN ? 0 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	RN	Q	QN
x	x	0	0	1
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHRX1H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	G	RN	Q	QN
LATHRX1H7R	0.00074	0.00096	0.00090	0.07034	0.07065

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHRX1H7R	0.00000	0.79144	1.17358

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX1H7R	D->Q (RR)	-	0.06683	0.22815	0.61057
	G->Q (RR)	RN	0.08177	0.23478	0.58212
	RN->Q (RR)	-	0.06848	0.22770	0.60511

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX1H7R	D->Q (FF)	-	0.05648	0.19883	0.52949
	G->Q (RF)	RN	0.07452	0.20574	0.49520
	RN->Q (FF)	-	0.05316	0.19911	0.54355

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX1H7R	D->QN (FR)	-	0.08731	0.24106	0.62040
	G->QN (RR)	RN	0.10547	0.25032	0.60283
	RN->QN (FR)	-	0.08168	0.24200	0.63453

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX1H7R	D->QN (RF)	-	0.09667	0.22275	0.52275
	G->QN (RF)	RN	0.11187	0.23051	0.50523
	RN->QN (RF)	-	0.09835	0.22238	0.51911

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX1H7R	hold	G (F)	-0.11252	-0.01962	0.06935
	setup	G (F)	-0.03410	0.04298	0.14513

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX1H7R	hold	G (F)	-0.09736	-0.02960	0.02567
	setup	G (F)	0.02272	0.06623	0.15301

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHRX1H7R	0.9851	-

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX1H7R	recovery	G (F)	-0.03182	0.04247	0.14109
	removal	G (F)	-0.11252	-0.02056	0.06761

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHRX1H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX1H7R	D	-	0.00110	0.00118	0.00142
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00004	-0.00003	-0.00002
	D	-	0.00147	0.00155	0.00180
	G	RN	0.00149	0.00159	0.00189
	G	RN	0.00001	0.00003	0.00003
	G	RN	-0.00002	-0.00001	-0.00000
	G	RN	0.00196	0.00206	0.00236
	RN	-	0.00111	0.00116	0.00128
	RN	-	0.00005	0.00006	0.00006
	RN	-	-0.00006	-0.00005	-0.00003
	RN	-	0.00164	0.00169	0.00182

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX1H7R	D	-	0.00140	0.00149	0.00176
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00002	0.00003	0.00004
	D	-	0.00102	0.00111	0.00138
	G	RN	0.00158	0.00168	0.00193
	G	RN	-0.00003	-0.00003	-0.00001
	G	RN	0.00000	0.00001	0.00002
	G	RN	0.00185	0.00195	0.00221
	RN	-	0.00148	0.00155	0.00175
	RN	-	-0.00005	-0.00004	-0.00002
	RN	-	0.00003	0.00005	0.00006
	RN	-	0.00103	0.00112	0.00133

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX1H7R	D	-	0.00140	0.00149	0.00176
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00003	0.00003	0.00005
	D	-	0.00102	0.00111	0.00138
	G	RN	0.00158	0.00168	0.00195
	G	RN	-0.00003	-0.00003	-0.00002
	G	RN	0.00000	0.00001	0.00003
	G	RN	0.00186	0.00195	0.00223
	RN	-	0.00148	0.00155	0.00176
	RN	-	-0.00004	-0.00004	-0.00002
	RN	-	0.00003	0.00003	0.00006
	RN	-	0.00105	0.00112	0.00133

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX1H7R	D	-	0.00109	0.00118	0.00142
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00004	-0.00003	-0.00003
	D	-	0.00147	0.00155	0.00180
	G	RN	0.00149	0.00159	0.00188
	G	RN	0.00002	0.00003	0.00003
	G	RN	-0.00003	-0.00001	0.00000
	G	RN	0.00196	0.00206	0.00235
	RN	-	0.00110	0.00116	0.00128
	RN	-	0.00005	0.00006	0.00006
	RN	-	-0.00005	-0.00003	-0.00003
	RN	-	0.00164	0.00169	0.00181

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7R	-0.00002	0.00013	0.00066
	0.00006	0.00006	0.00006
	-0.00005	-0.00005	-0.00004
	0.00057	0.00072	0.00125

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7R	0.00049	0.00066	0.00123
	-0.00006	-0.00006	-0.00006
	0.00004	0.00005	0.00005
	-0.00010	0.00007	0.00064

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7R	0.00073	0.00086	0.00133
	0.00000	0.00000	0.00001
	-0.00001	-0.00000	0.00000
	0.00148	0.00162	0.00209

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7R	0.00170	0.00185	0.00235
	-0.00000	0.00000	0.00000
	0.00000	0.00000	0.00001
	0.00096	0.00111	0.00161

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7R	-0.00015	-0.00015	-0.00015
	-0.00001	-0.00000	-0.00000
	0.00001	0.00002	0.00003
	0.00035	0.00036	0.00037

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX1H7R	0.00019	0.00020	0.00020
	0.00000	0.00000	0.00001
	-0.00003	-0.00002	-0.00001
	-0.00032	-0.00031	-0.00029

LATHRX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !RN ? 0 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	RN	Q	QN
x	x	0	0	1
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHRX2H7R	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	G	RN	Q	QN
LATHRX2H7R	0.00083	0.00095	0.00090	0.08904	0.08914

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHRX2H7R	0.00000	0.93965	1.36662

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX2H7R	D->Q (RR)	-	0.06448	0.22649	0.61001
	G->Q (RR)	RN	0.07973	0.23386	0.58322
	RN->Q (RR)	-	0.06587	0.22538	0.60155

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX2H7R	D->Q (FF)	-	0.05360	0.19487	0.52204
	G->Q (RF)	RN	0.07237	0.20407	0.49331
	RN->Q (FF)	-	0.07045	0.22890	0.59594

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX2H7R	D->QN (FR)	-	0.08592	0.23869	0.61651
	G->QN (RR)	RN	0.10471	0.24972	0.60391
	RN->QN (FR)	-	0.10550	0.27030	0.68038

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHRX2H7R	D->QN (RF)	-	0.09624	0.22094	0.51803
	G->QN (RF)	RN	0.11169	0.22913	0.50160
	RN->QN (RF)	-	0.09764	0.21986	0.51166

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX2H7R	hold	G (F)	-0.10669	-0.01633	0.07367
	setup	G (F)	-0.04069	0.04014	0.14297

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX2H7R	hold	G (F)	-0.09270	-0.02693	0.02983
	setup	G (F)	0.02469	0.06600	0.15111

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHRX2H7R	0.9851	-

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHRX2H7R	recovery	G (F)	-0.03721	0.03942	0.13711
	removal	G (F)	-0.10454	-0.01689	0.07193

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHRX2H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX2H7R	D	-	0.00133	0.00144	0.00176
	D	-	0.00006	0.00006	0.00008
	D	-	-0.00005	-0.00004	-0.00003
	D	-	0.00176	0.00186	0.00218
	G	RN	0.00178	0.00189	0.00220
	G	RN	0.00001	0.00002	0.00003
	G	RN	-0.00003	-0.00002	-0.00000
	G	RN	0.00222	0.00234	0.00266
	RN	-	0.00136	0.00142	0.00157
	RN	-	0.00005	0.00006	0.00008
	RN	-	-0.00007	-0.00006	-0.00004
	RN	-	0.00193	0.00199	0.00213

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX2H7R	D	-	0.00168	0.00179	0.00214
	D	-	-0.00007	-0.00006	-0.00006
	D	-	0.00003	0.00004	0.00005
	D	-	0.00126	0.00137	0.00172
	G	RN	0.00185	0.00196	0.00224
	G	RN	-0.00003	-0.00002	-0.00001
	G	RN	0.00000	0.00002	0.00003
	G	RN	0.00213	0.00224	0.00251
	RN	-	0.00176	0.00184	0.00213
	RN	-	-0.00006	-0.00004	-0.00002
	RN	-	0.00004	0.00006	0.00008
	RN	-	0.00127	0.00137	0.00166

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX2H7R	D	-	0.00168	0.00179	0.00214
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00003	0.00004	0.00005
	D	-	0.00126	0.00137	0.00172
	G	RN	0.00186	0.00196	0.00224
	G	RN	-0.00003	-0.00002	-0.00002
	G	RN	0.00000	0.00002	0.00004
	G	RN	0.00212	0.00224	0.00252
	RN	-	0.00176	0.00184	0.00214
	RN	-	-0.00006	-0.00004	-0.00003
	RN	-	0.00005	0.00006	0.00006
	RN	-	0.00128	0.00137	0.00166

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHRX2H7R	D	-	0.00134	0.00144	0.00176
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00005	-0.00004	-0.00003
	D	-	0.00176	0.00186	0.00218
	G	RN	0.00177	0.00188	0.00219
	G	RN	0.00002	0.00002	0.00003
	G	RN	-0.00003	-0.00002	-0.00000
	G	RN	0.00224	0.00234	0.00265
	RN	-	0.00137	0.00142	0.00157
	RN	-	0.00006	0.00006	0.00007
	RN	-	-0.00006	-0.00006	-0.00005
	RN	-	0.00193	0.00199	0.00213

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7R	-0.00003	0.00015	0.00076
	0.00008	0.00008	0.00008
	-0.00006	-0.00005	-0.00005
	0.00065	0.00082	0.00144

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7R	0.00056	0.00077	0.00144
	-0.00008	-0.00008	-0.00007
	0.00005	0.00006	0.00006
	-0.00010	0.00009	0.00075

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7R	0.00081	0.00094	0.00142
	-0.00000	-0.00000	0.00000
	-0.00000	0.00000	0.00000
	0.00156	0.00169	0.00217

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7R	0.00175	0.00189	0.00241
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	0.00102	0.00117	0.00168

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7R	-0.00013	-0.00013	-0.00013
	-0.00000	-0.00000	-0.00000
	0.00001	0.00002	0.00002
	0.00038	0.00038	0.00039

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHRX2H7R	0.00017	0.00018	0.00019
	0.00000	0.00000	0.00000
	-0.00002	-0.00002	-0.00001
	-0.00034	-0.00032	-0.00030

LATHSRX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch with Clear and Set
Q = !SN ? 1 : !RN ? 0 : E ? D : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
D	G	RN	SN	Q	QN
x	x	x	0	1	0
x	x	0	1	0	1
x	0	1	1	IQ	IQN
0	1	1	1	0	1
1	1	1	1	1	0

Footprint

Cell Name	Area
LATHSRX0P5H7R	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	G	RN	SN	Q	QN
LATHSRX0P5H7R	0.00071	0.00094	0.00077	0.00079	0.05943	0.05947

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHSRX0P5H7R	0.00000	0.90803	1.20087

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX0P5H7R	D->Q (RR)	-	0.08033	0.24775	0.63880
	G->Q (RR)	(RN * SN)	0.09957	0.25690	0.60949
	RN->Q (RR)	(D * G * SN)	0.08526	0.25140	0.64024
	SN->Q (FR)	(D * !G * RN)	0.06106	0.20841	0.56702
	SN->Q (FR)	(D * !G * !RN)	0.06265	0.21213	0.57362
	SN->Q (FR)	(!D * G * RN)	0.06341	0.21268	0.57313
	SN->Q (FR)	(!D * G * !RN)	0.06518	0.21405	0.57367
	SN->Q (FR)	(!D * !G * RN)	0.06129	0.20889	0.56816
	SN->Q (FR)	(!D * !G * !RN)	0.06416	0.21311	0.57332

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX0P5H7R	D->Q (FF)	-	0.09600	0.25615	0.61431
	G->Q (RF)	(RN * SN)	0.09940	0.24254	0.53797
	RN->Q (FF)	(D * G * SN)	0.10086	0.26728	0.64652
	RN->Q (FF)	(D * !G * SN)	0.09896	0.25876	0.62184
	RN->Q (FF)	(!D * !G * SN)	0.09180	0.25081	0.61054
	SN->Q (RF)	(!D * G * RN)	0.11652	0.24893	0.52206
	SN->Q (RF)	(!D * G * !RN)	0.09377	0.21711	0.48532

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX0P5H7R	D->QN (FR)	-	0.13708	0.29549	0.69303
	G->QN (RR)	(RN * SN)	0.14086	0.28284	0.63115
	RN->QN (FR)	(D * G * SN)	0.14172	0.30671	0.72318
	RN->QN (FR)	(D * !G * SN)	0.13879	0.30295	0.71712
	RN->QN (FR)	(!D * !G * SN)	0.13126	0.29458	0.70475
	SN->QN (RR)	(!D * G * RN)	0.15761	0.28930	0.61603
	SN->QN (RR)	(!D * G * !RN)	0.12837	0.26165	0.59127

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX0P5H7R	D->QN (RF)	-	0.11525	0.24216	0.54495
	G->QN (RF)	(RN * SN)	0.13471	0.25222	0.52626
	RN->QN (RF)	(D * G * SN)	0.12025	0.24581	0.54644
	SN->QN (FF)	(D * !G * RN)	0.08993	0.20809	0.49344
	SN->QN (FF)	(D * !G * !RN)	0.09166	0.21030	0.49650
	SN->QN (FF)	(!D * G * RN)	0.09318	0.21153	0.49742
	SN->QN (FF)	(!D * G * !RN)	0.09395	0.21210	0.49801
	SN->QN (FF)	(!D * !G * RN)	0.09031	0.20864	0.49510
	SN->QN (FF)	(!D * !G * !RN)	0.09327	0.21179	0.49783

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX0P5H7R	hold	G (F)	-0.12230	-0.02634	0.06247
	setup	G (F)	-0.02367	0.05004	0.15300

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX0P5H7R	hold	G (F)	-0.15922	-0.06702	-0.00299
	setup	G (F)	0.06072	0.11501	0.22771

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSRX0P5H7R	0.9851	-

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHSRX0P5H7R	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX0P5H7R	recovery	G (F)	-0.02586	0.05218	0.15443
	removal	G (F)	-0.12788	-0.02992	0.06546

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX0P5H7R	recovery	G (F)	0.07834	0.11058	0.15185
	removal	G (F)	-0.11322	-0.06935	-0.02490
	hold	RN (R)	-0.29203	-0.15615	-0.09123
	setup	RN (R)	0.11706	0.20750	0.44079

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSRX0P5H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX0P5H7R	**D**	**-**	0.00128	0.00137	0.00156
	D	**-**	0.00005	0.00006	0.00006
	D	**-**	-0.00006	-0.00005	-0.00004
	D	**-**	0.00166	0.00174	0.00193
	G	**(RN * SN)**	0.00184	0.00196	0.00224
	G	**(RN * SN)**	0.00002	0.00002	0.00003
	G	**(RN * SN)**	-0.00003	-0.00003	-0.00002
	G	**(RN * SN)**	0.00229	0.00240	0.00269
	RN	**(D * G * SN)**	0.00129	0.00134	0.00143
	RN	**(D * G * SN)**	0.00005	0.00006	0.00006
	RN	**(D * G * SN)**	-0.00009	-0.00008	-0.00007
	RN	**(D * G * SN)**	0.00179	0.00185	0.00196
	SN	**(D * !G * RN)**	0.00174	0.00188	0.00218
	SN	**(D * !G * RN)**	0.00003	0.00004	0.00006
	SN	**(D * !G * RN)**	-0.00005	-0.00003	-0.00002
	SN	**(D * !G * RN)**	0.00158	0.00171	0.00202
	SN	**(D * !G * !RN)**	0.00183	0.00195	0.00226
	SN	**(D * !G * !RN)**	0.00006	0.00008	0.00011
	SN	**(D * !G * !RN)**	-0.00009	-0.00007	-0.00006
	SN	**(D * !G * !RN)**	0.00182	0.00194	0.00227
	SN	**(!D * G * RN)**	0.00185	0.00198	0.00229
	SN	**(!D * G * RN)**	0.00007	0.00009	0.00011
	SN	**(!D * G * RN)**	-0.00004	-0.00004	-0.00002
	SN	**(!D * G * RN)**	0.00184	0.00196	0.00229
	SN	**(!D * G * !RN)**	0.00185	0.00196	0.00225
	SN	**(!D * G * !RN)**	0.00007	0.00010	0.00010
	SN	**(!D * G * !RN)**	-0.00003	-0.00003	-0.00002
	SN	**(!D * G * !RN)**	0.00181	0.00194	0.00224
	SN	**(!D * !G * RN)**	0.00177	0.00190	0.00221
	SN	**(!D * !G * RN)**	0.00003	0.00006	0.00008
	SN	**(!D * !G * RN)**	-0.00004	-0.00004	-0.00002
	SN	**(!D * !G * RN)**	0.00162	0.00177	0.00210
	SN	**(!D * !G * !RN)**	0.00181	0.00194	0.00224
	SN	**(!D * !G * !RN)**	0.00007	0.00010	0.00013
	SN	**(!D * !G * !RN)**	-0.00007	-0.00005	-0.00003
	SN	**(!D * !G * !RN)**	0.00180	0.00194	0.00223

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSRX0P5H7R	D	-	0.00168	0.00176	0.00199
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00004	0.00005	0.00006
	D	-	0.00130	0.00138	0.00161
	G	(RN * SN)	0.00190	0.00200	0.00225
	G	(RN * SN)	-0.00003	-0.00002	-0.00002
	G	(RN * SN)	0.00002	0.00003	0.00003
	G	(RN * SN)	0.00215	0.00225	0.00251
	RN	(D * G * SN)	0.00188	0.00195	0.00214
	RN	(D * G * SN)	-0.00006	-0.00006	-0.00005
	RN	(D * G * SN)	0.00007	0.00008	0.00010
	RN	(D * G * SN)	0.00138	0.00145	0.00164
	RN	(D * !G * SN)	0.00177	0.00185	0.00203
	RN	(D * !G * SN)	-0.00006	-0.00005	-0.00003
	RN	(D * !G * SN)	0.00005	0.00007	0.00008
	RN	(D * !G * SN)	0.00135	0.00143	0.00160
	RN	(!D * !G * SN)	0.00169	0.00177	0.00195
	RN	(!D * !G * SN)	-0.00006	-0.00004	-0.00003
	RN	(!D * !G * SN)	0.00004	0.00005	0.00006
	RN	(!D * !G * SN)	0.00132	0.00140	0.00159
	SN	(!D * G * RN)	0.00184	0.00194	0.00222
	SN	(!D * G * RN)	-0.00010	-0.00009	-0.00007
	SN	(!D * G * RN)	0.00002	0.00004	0.00005
	SN	(!D * G * RN)	0.00185	0.00195	0.00224
	SN	(!D * G * !RN)	0.00186	0.00197	0.00226
	SN	(!D * G * !RN)	-0.00010	-0.00010	-0.00007
	SN	(!D * G * !RN)	0.00002	0.00003	0.00004
	SN	(!D * G * !RN)	0.00187	0.00198	0.00227

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSRX0P5H7R	D	-	0.00168	0.00176	0.00199
	D	-	-0.00006	-0.00005	-0.00005
	D	-	0.00004	0.00005	0.00006
	D	-	0.00130	0.00138	0.00161
	G	(RN * SN)	0.00189	0.00200	0.00225
	G	(RN * SN)	-0.00003	-0.00002	-0.00002
	G	(RN * SN)	0.00001	0.00002	0.00004
	G	(RN * SN)	0.00216	0.00226	0.00251
	RN	(D * G * SN)	0.00188	0.00195	0.00215
	RN	(D * G * SN)	-0.00006	-0.00006	-0.00005
	RN	(D * G * SN)	0.00007	0.00008	0.00010
	RN	(D * G * SN)	0.00138	0.00145	0.00164
	RN	(D * !G * SN)	0.00176	0.00185	0.00203
	RN	(D * !G * SN)	-0.00007	-0.00005	-0.00003
	RN	(D * !G * SN)	0.00005	0.00007	0.00007
	RN	(D * !G * SN)	0.00135	0.00143	0.00160
	RN	(!D * !G * SN)	0.00169	0.00177	0.00195
	RN	(!D * !G * SN)	-0.00005	-0.00004	-0.00003
	RN	(!D * !G * SN)	0.00004	0.00005	0.00007
	RN	(!D * !G * SN)	0.00131	0.00140	0.00158
	SN	(!D * G * RN)	0.00184	0.00194	0.00222
	SN	(!D * G * RN)	-0.00009	-0.00009	-0.00009
	SN	(!D * G * RN)	0.00003	0.00004	0.00005
	SN	(!D * G * RN)	0.00185	0.00195	0.00224
	SN	(!D * G * !RN)	0.00186	0.00198	0.00226
	SN	(!D * G * !RN)	-0.00010	-0.00010	-0.00009
	SN	(!D * G * !RN)	0.00003	0.00003	0.00003
	SN	(!D * G * !RN)	0.00186	0.00198	0.00226

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX0P5H7R	**D**	**-**	0.00128	0.00137	0.00156
	D	**-**	0.00005	0.00005	0.00006
	D	**-**	-0.00005	-0.00005	-0.00004
	D	**-**	0.00166	0.00174	0.00193
	G	**(RN * SN)**	0.00185	0.00196	0.00224
	G	**(RN * SN)**	0.00002	0.00002	0.00003
	G	**(RN * SN)**	-0.00004	-0.00002	-0.00001
	G	**(RN * SN)**	0.00229	0.00240	0.00269
	RN	**(D * G * SN)**	0.00128	0.00134	0.00142
	RN	**(D * G * SN)**	0.00005	0.00006	0.00006
	RN	**(D * G * SN)**	-0.00009	-0.00008	-0.00007
	RN	**(D * G * SN)**	0.00179	0.00185	0.00193
	SN	**(D * !G * RN)**	0.00176	0.00188	0.00218
	SN	**(D * !G * RN)**	0.00004	0.00004	0.00005
	SN	**(D * !G * RN)**	-0.00003	-0.00003	-0.00001
	SN	**(D * !G * RN)**	0.00158	0.00171	0.00202
	SN	**(D * !G * !RN)**	0.00182	0.00194	0.00224
	SN	**(D * !G * !RN)**	0.00006	0.00008	0.00008
	SN	**(D * !G * !RN)**	-0.00008	-0.00007	-0.00005
	SN	**(D * !G * !RN)**	0.00182	0.00194	0.00225
	SN	**(!D * G * RN)**	0.00186	0.00198	0.00228
	SN	**(!D * G * RN)**	0.00009	0.00009	0.00009
	SN	**(!D * G * RN)**	-0.00004	-0.00004	-0.00003
	SN	**(!D * G * RN)**	0.00183	0.00196	0.00226
	SN	**(!D * G * !RN)**	0.00184	0.00196	0.00225
	SN	**(!D * G * !RN)**	0.00009	0.00010	0.00010
	SN	**(!D * G * !RN)**	-0.00003	-0.00003	-0.00003
	SN	**(!D * G * !RN)**	0.00182	0.00194	0.00223
	SN	**(!D * !G * RN)**	0.00177	0.00190	0.00221
	SN	**(!D * !G * RN)**	0.00005	0.00006	0.00006
	SN	**(!D * !G * RN)**	-0.00004	-0.00004	-0.00003
	SN	**(!D * !G * RN)**	0.00164	0.00177	0.00209
	SN	**(!D * !G * !RN)**	0.00182	0.00194	0.00223
	SN	**(!D * !G * !RN)**	0.00009	0.00010	0.00010
	SN	**(!D * !G * !RN)**	-0.00007	-0.00005	-0.00003
	SN	**(!D * !G * !RN)**	0.00181	0.00194	0.00223

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7R	0.00004	0.00017	0.00061
	0.00006	0.00006	0.00007
	-0.00005	-0.00005	-0.00004
	0.00063	0.00076	0.00121

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7R	0.00059	0.00072	0.00120
	-0.00007	-0.00006	-0.00006
	0.00004	0.00005	0.00005
	-0.00001	0.00013	0.00060

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7R	0.00105	0.00117	0.00163
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00001
	0.00174	0.00187	0.00232

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7R	0.00180	0.00193	0.00241
	-0.00000	-0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00107	0.00121	0.00169

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7R	-0.00009	-0.00009	-0.00009
	-0.00000	-0.00000	-0.00000
	0.00000	0.00001	0.00001
	0.00030	0.00031	0.00031

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7R	0.00020	0.00020	0.00020
	0.00000	0.00000	0.00000
	-0.00001	-0.00001	-0.00000
	-0.00025	-0.00024	-0.00022

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7R	0.00000	0.00015	0.00068
	0.00004	0.00005	0.00006
	-0.00003	-0.00003	-0.00002
	0.00065	0.00080	0.00133

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX0P5H7R	0.00082	0.00098	0.00153
	-0.00006	-0.00005	-0.00004
	0.00002	0.00003	0.00003
	0.00016	0.00032	0.00088

LATHSRX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch with Clear and Set
Q = !SN ? 1 : !RN ? 0 : E ? D : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
D	G	RN	SN	Q	QN
x	x	x	0	1	0
x	x	0	1	0	1
x	0	1	1	IQ	IQN
0	1	1	1	0	1
1	1	1	1	1	0

Footprint

Cell Name	Area
LATHSRX1H7R	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	G	RN	SN	Q	QN
LATHSRX1H7R	0.00071	0.00094	0.00077	0.00079	0.07028	0.07015

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHSRX1H7R	0.00000	0.94800	1.24080

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX1H7R	D->Q (RR)	-	0.07956	0.24818	0.64122
	G->Q (RR)	(RN * SN)	0.09870	0.25699	0.61018
	RN->Q (RR)	(D * G * SN)	0.08450	0.25176	0.64194
	SN->Q (FR)	(D * !G * RN)	0.06020	0.20799	0.56691
	SN->Q (FR)	(D * !G * !RN)	0.06176	0.21166	0.57265
	SN->Q (FR)	(!D * G * RN)	0.06246	0.21220	0.57232
	SN->Q (FR)	(!D * G * !RN)	0.06423	0.21362	0.57447
	SN->Q (FR)	(!D * !G * RN)	0.06040	0.20847	0.56766
	SN->Q (FR)	(!D * !G * !RN)	0.06327	0.21267	0.57317

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX1H7R	D->Q (FF)	-	0.09533	0.25764	0.61940
	G->Q (RF)	(RN * SN)	0.09873	0.24392	0.54291
	RN->Q (FF)	(D * G * SN)	0.10017	0.26859	0.65136
	RN->Q (FF)	(D * !G * SN)	0.09837	0.26028	0.62724
	RN->Q (FF)	(!D * !G * SN)	0.09117	0.25223	0.61585
	SN->Q (RF)	(!D * G * RN)	0.11586	0.25029	0.52642
	SN->Q (RF)	(!D * G * !RN)	0.09309	0.21809	0.48896

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX1H7R	D->QN (FR)	-	0.13906	0.29756	0.69540
	G->QN (RR)	(RN * SN)	0.14288	0.28467	0.63222
	RN->QN (FR)	(D * G * SN)	0.14353	0.30866	0.72538
	RN->QN (FR)	(D * !G * SN)	0.14069	0.30488	0.71950
	RN->QN (FR)	(!D * !G * SN)	0.13309	0.29645	0.70710
	SN->QN (RR)	(!D * G * RN)	0.15961	0.29111	0.61729
	SN->QN (RR)	(!D * G * !RN)	0.12964	0.26278	0.59161

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX1H7R	D->QN (RF)	-	0.11680	0.24496	0.55103
	G->QN (RF)	(RN * SN)	0.13610	0.25459	0.53071
	RN->QN (RF)	(D * G * SN)	0.12179	0.24853	0.55176
	SN->QN (FF)	(D * !G * RN)	0.09052	0.20973	0.49762
	SN->QN (FF)	(D * !G * !RN)	0.09223	0.21194	0.50022
	SN->QN (FF)	(!D * G * RN)	0.09379	0.21318	0.50104
	SN->QN (FF)	(!D * G * !RN)	0.09457	0.21377	0.50175
	SN->QN (FF)	(!D * !G * RN)	0.09091	0.21027	0.49797
	SN->QN (FF)	(!D * !G * !RN)	0.09388	0.21344	0.50198

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX1H7R	hold	G (F)	-0.12391	-0.02660	0.06514
	setup	G (F)	-0.02299	0.05157	0.15895

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX1H7R	hold	G (F)	-0.16141	-0.06689	-0.00109
	setup	G (F)	0.06026	0.11769	0.23238

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSRX1H7R	0.9851	-

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHSRX1H7R	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX1H7R	recovery	G (F)	-0.02431	0.05408	0.15877
	removal	G (F)	-0.12605	-0.03046	0.06137

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX1H7R	recovery	G (F)	0.07758	0.11276	0.15437
	removal	G (F)	-0.11139	-0.06944	-0.02757
	hold	RN (R)	-0.29529	-0.15704	-0.08879
	setup	RN (R)	0.12075	0.20864	0.44368

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSRX1H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX1H7R	**D**	**-**	0.00134	0.00143	0.00163
	D	**-**	0.00004	0.00006	0.00007
	D	**-**	-0.00005	-0.00005	-0.00003
	D	**-**	0.00172	0.00181	0.00201
	G	**(RN * SN)**	0.00190	0.00202	0.00230
	G	**(RN * SN)**	0.00001	0.00002	0.00004
	G	**(RN * SN)**	-0.00004	-0.00002	-0.00001
	G	**(RN * SN)**	0.00235	0.00246	0.00276
	RN	**(D * G * SN)**	0.00134	0.00140	0.00150
	RN	**(D * G * SN)**	0.00005	0.00006	0.00007
	RN	**(D * G * SN)**	-0.00009	-0.00008	-0.00007
	RN	**(D * G * SN)**	0.00185	0.00191	0.00203
	SN	**(D * !G * RN)**	0.00179	0.00194	0.00225
	SN	**(D * !G * RN)**	0.00002	0.00005	0.00007
	SN	**(D * !G * RN)**	-0.00005	-0.00003	-0.00003
	SN	**(D * !G * RN)**	0.00164	0.00178	0.00209
	SN	**(D * !G * !RN)**	0.00185	0.00201	0.00230
	SN	**(D * !G * !RN)**	0.00005	0.00008	0.00011
	SN	**(D * !G * !RN)**	-0.00009	-0.00007	-0.00007
	SN	**(D * !G * !RN)**	0.00188	0.00201	0.00231
	SN	**(!D * G * RN)**	0.00190	0.00204	0.00234
	SN	**(!D * G * RN)**	0.00007	0.00009	0.00012
	SN	**(!D * G * RN)**	-0.00004	-0.00004	-0.00002
	SN	**(!D * G * RN)**	0.00189	0.00202	0.00233
	SN	**(!D * G * !RN)**	0.00188	0.00203	0.00235
	SN	**(!D * G * !RN)**	0.00007	0.00010	0.00010
	SN	**(!D * G * !RN)**	-0.00003	-0.00003	-0.00002
	SN	**(!D * G * !RN)**	0.00187	0.00200	0.00234
	SN	**(!D * !G * RN)**	0.00181	0.00196	0.00227
	SN	**(!D * !G * RN)**	0.00003	0.00006	0.00008
	SN	**(!D * !G * RN)**	-0.00004	-0.00004	-0.00003
	SN	**(!D * !G * RN)**	0.00169	0.00183	0.00215
	SN	**(!D * !G * !RN)**	0.00186	0.00201	0.00230
	SN	**(!D * !G * !RN)**	0.00008	0.00010	0.00012
	SN	**(!D * !G * !RN)**	-0.00009	-0.00005	-0.00005
	SN	**(!D * !G * !RN)**	0.00187	0.00200	0.00230

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSRX1H7R	D	-	0.00173	0.00182	0.00206
	D	-	-0.00006	-0.00006	-0.00004
	D	-	0.00003	0.00005	0.00006
	D	-	0.00136	0.00144	0.00169
	G	(RN * SN)	0.00195	0.00205	0.00231
	G	(RN * SN)	-0.00004	-0.00002	-0.00001
	G	(RN * SN)	0.00001	0.00002	0.00004
	G	(RN * SN)	0.00221	0.00231	0.00258
	RN	(D * G * SN)	0.00193	0.00201	0.00222
	RN	(D * G * SN)	-0.00006	-0.00006	-0.00005
	RN	(D * G * SN)	0.00007	0.00008	0.00011
	RN	(D * G * SN)	0.00142	0.00150	0.00171
	RN	(D * !G * SN)	0.00182	0.00191	0.00210
	RN	(D * !G * SN)	-0.00007	-0.00005	-0.00003
	RN	(D * !G * SN)	0.00005	0.00007	0.00009
	RN	(D * !G * SN)	0.00140	0.00148	0.00168
	RN	(!D * !G * SN)	0.00175	0.00182	0.00202
	RN	(!D * !G * SN)	-0.00005	-0.00004	-0.00003
	RN	(!D * !G * SN)	0.00004	0.00005	0.00007
	RN	(!D * !G * SN)	0.00138	0.00146	0.00166
	SN	(!D * G * RN)	0.00189	0.00199	0.00227
	SN	(!D * G * RN)	-0.00010	-0.00009	-0.00007
	SN	(!D * G * RN)	0.00002	0.00004	0.00005
	SN	(!D * G * RN)	0.00190	0.00201	0.00229
	SN	(!D * G * !RN)	0.00191	0.00203	0.00230
	SN	(!D * G * !RN)	-0.00010	-0.00010	-0.00007
	SN	(!D * G * !RN)	0.00003	0.00003	0.00004
	SN	(!D * G * !RN)	0.00190	0.00203	0.00231

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSRX1H7R	D	-	0.00174	0.00182	0.00206
	D	-	-0.00006	-0.00006	-0.00004
	D	-	0.00004	0.00005	0.00005
	D	-	0.00136	0.00144	0.00169
	G	(RN * SN)	0.00195	0.00205	0.00231
	G	(RN * SN)	-0.00004	-0.00002	-0.00001
	G	(RN * SN)	0.00002	0.00003	0.00004
	G	(RN * SN)	0.00220	0.00231	0.00257
	RN	(D * G * SN)	0.00193	0.00201	0.00222
	RN	(D * G * SN)	-0.00006	-0.00006	-0.00005
	RN	(D * G * SN)	0.00008	0.00009	0.00010
	RN	(D * G * SN)	0.00142	0.00150	0.00172
	RN	(D * !G * SN)	0.00182	0.00191	0.00210
	RN	(D * !G * SN)	-0.00006	-0.00005	-0.00003
	RN	(D * !G * SN)	0.00005	0.00007	0.00009
	RN	(D * !G * SN)	0.00139	0.00148	0.00168
	RN	(!D * !G * SN)	0.00174	0.00182	0.00202
	RN	(!D * !G * SN)	-0.00005	-0.00004	-0.00003
	RN	(!D * !G * SN)	0.00003	0.00005	0.00006
	RN	(!D * !G * SN)	0.00138	0.00146	0.00166
	SN	(!D * G * RN)	0.00190	0.00200	0.00228
	SN	(!D * G * RN)	-0.00010	-0.00009	-0.00007
	SN	(!D * G * RN)	0.00003	0.00004	0.00004
	SN	(!D * G * RN)	0.00191	0.00201	0.00230
	SN	(!D * G * !RN)	0.00191	0.00203	0.00231
	SN	(!D * G * !RN)	-0.00010	-0.00010	-0.00009
	SN	(!D * G * !RN)	0.00003	0.00003	0.00004
	SN	(!D * G * !RN)	0.00190	0.00203	0.00231

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX1H7R	**D**	**-**	0.00134	0.00143	0.00163
	D	**-**	0.00004	0.00006	0.00007
	D	**-**	-0.00005	-0.00005	-0.00004
	D	**-**	0.00172	0.00181	0.00201
	G	**(RN * SN)**	0.00191	0.00202	0.00231
	G	**(RN * SN)**	0.00001	0.00002	0.00004
	G	**(RN * SN)**	-0.00004	-0.00003	-0.00002
	G	**(RN * SN)**	0.00235	0.00246	0.00276
	RN	**(D * G * SN)**	0.00135	0.00140	0.00149
	RN	**(D * G * SN)**	0.00005	0.00006	0.00006
	RN	**(D * G * SN)**	-0.00009	-0.00008	-0.00008
	RN	**(D * G * SN)**	0.00185	0.00191	0.00201
	SN	**(D * !G * RN)**	0.00180	0.00195	0.00225
	SN	**(D * !G * RN)**	0.00002	0.00004	0.00006
	SN	**(D * !G * RN)**	-0.00003	-0.00003	-0.00002
	SN	**(D * !G * RN)**	0.00164	0.00178	0.00209
	SN	**(D * !G * !RN)**	0.00187	0.00201	0.00231
	SN	**(D * !G * !RN)**	0.00008	0.00008	0.00008
	SN	**(D * !G * !RN)**	-0.00009	-0.00007	-0.00005
	SN	**(D * !G * !RN)**	0.00187	0.00201	0.00231
	SN	**(!D * G * RN)**	0.00191	0.00204	0.00234
	SN	**(!D * G * RN)**	0.00007	0.00009	0.00011
	SN	**(!D * G * RN)**	-0.00004	-0.00004	-0.00003
	SN	**(!D * G * RN)**	0.00189	0.00202	0.00232
	SN	**(!D * G * !RN)**	0.00189	0.00202	0.00233
	SN	**(!D * G * !RN)**	0.00009	0.00010	0.00010
	SN	**(!D * G * !RN)**	-0.00003	-0.00003	-0.00002
	SN	**(!D * G * !RN)**	0.00187	0.00200	0.00231
	SN	**(!D * !G * RN)**	0.00183	0.00196	0.00226
	SN	**(!D * !G * RN)**	0.00005	0.00006	0.00008
	SN	**(!D * !G * RN)**	-0.00004	-0.00004	-0.00003
	SN	**(!D * !G * RN)**	0.00169	0.00183	0.00214
	SN	**(!D * !G * !RN)**	0.00187	0.00200	0.00232
	SN	**(!D * !G * !RN)**	0.00010	0.00010	0.00012
	SN	**(!D * !G * !RN)**	-0.00005	-0.00005	-0.00004
	SN	**(!D * !G * !RN)**	0.00187	0.00200	0.00232

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7R	0.00004	0.00017	0.00061
	0.00006	0.00006	0.00007
	-0.00005	-0.00005	-0.00004
	0.00063	0.00076	0.00121

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7R	0.00059	0.00072	0.00120
	-0.00007	-0.00006	-0.00006
	0.00004	0.00005	0.00005
	-0.00001	0.00013	0.00060

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7R	0.00109	0.00122	0.00167
	0.00000	0.00000	0.00000
	-0.00000	0.00000	0.00001
	0.00177	0.00189	0.00234

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7R	0.00180	0.00193	0.00242
	0.00000	0.00000	0.00000
	0.00000	0.00001	0.00001
	0.00107	0.00121	0.00170

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7R	-0.00008	-0.00008	-0.00008
	-0.00001	-0.00001	-0.00000
	0.00000	0.00001	0.00001
	0.00031	0.00031	0.00031

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7R	0.00020	0.00020	0.00021
	0.00000	0.00001	0.00001
	-0.00001	-0.00001	-0.00000
	-0.00025	-0.00023	-0.00021

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7R	0.00001	0.00015	0.00068
	0.00003	0.00004	0.00005
	-0.00003	-0.00003	-0.00002
	0.00065	0.00080	0.00133

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSRX1H7R	0.00082	0.00098	0.00153
	-0.00005	-0.00004	-0.00003
	0.00003	0.00003	0.00003
	0.00016	0.00032	0.00088

LATHSRX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch with Clear and Set
Q = !SN ? 1 : !RN ? 0 : E ? D : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
D	G	RN	SN	Q	QN
x	x	x	0	1	0
x	x	0	1	0	1
x	0	1	1	IQ	IQN
0	1	1	1	0	1
1	1	1	1	1	0

Footprint

Cell Name	Area
LATHSRX2H7R	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	**G**	**RN**	**SN**	**Q**	**QN**
LATHSRX2H7R	0.00078	0.00094	0.00081	0.00082	0.08103	0.08091

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
LATHSRX2H7R	0.00000	0.99456	1.36023

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX2H7R	D->Q (RR)	-	0.07208	0.23764	0.62514
	G->Q (RR)	-	0.09108	0.24832	0.60148
	RN->Q (RR)	(D * G)	0.07637	0.24072	0.62550
	SN->Q (FR)	(D * G * !RN)	0.06527	0.21843	0.58214
	SN->Q (FR)	(D * !G * RN)	0.06079	0.20966	0.57022
	SN->Q (FR)	(D * !G * !RN)	0.06252	0.21372	0.57754
	SN->Q (FR)	(!D * G * RN)	0.06416	0.21525	0.57793
	SN->Q (FR)	(!D * G * !RN)	0.06589	0.21656	0.57843
	SN->Q (FR)	(!D * !G * RN)	0.06108	0.21028	0.57099
	SN->Q (FR)	(!D * !G * !RN)	0.06433	0.21498	0.57813

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX2H7R	D->Q (FF)	-	0.08626	0.24478	0.60133
	G->Q (RF)	-	0.09110	0.23469	0.53422
	RN->Q (FF)	(D * G)	0.09736	0.26684	0.65268
	RN->Q (FF)	(D * !G)	0.09457	0.25690	0.62575
	RN->Q (FF)	(!D * !G)	0.08720	0.24848	0.61348
	SN->Q (RF)	(D * G * !RN)	0.11605	0.25082	0.52726
	SN->Q (RF)	(D * !G * !RN)	0.11331	0.24223	0.51312
	SN->Q (RF)	(!D * G * RN)	0.10628	0.23892	0.51528
	SN->Q (RF)	(!D * G * !RN)	0.08724	0.21212	0.48451
	SN->Q (RF)	(!D * !G * !RN)	0.11247	0.24188	0.51442

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX2H7R	D->QN (FR)	-	0.12960	0.28743	0.68191
	G->QN (RR)	-	0.13483	0.27817	0.62864
	RN->QN (FR)	(D * G)	0.14216	0.30849	0.72785
	RN->QN (FR)	(D * !G)	0.13797	0.30312	0.71956
	RN->QN (FR)	(!D * !G)	0.13018	0.29431	0.70626
	SN->QN (RR)	(D * G * !RN)	0.16086	0.29358	0.62026
	SN->QN (RR)	(D * !G * !RN)	0.15681	0.28892	0.61646
	SN->QN (RR)	(!D * G * RN)	0.14963	0.28238	0.61031
	SN->QN (RR)	(!D * G * !RN)	0.12405	0.25833	0.58919
	SN->QN (RR)	(!D * !G * !RN)	0.15550	0.28823	0.61719

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSRX2H7R	D->QN (RF)	-	0.10936	0.23708	0.54098
	G->QN (RF)	-	0.12850	0.24849	0.52694
	RN->QN (RF)	(D * G)	0.11370	0.24017	0.54181
	SN->QN (FF)	(D * G * !RN)	0.09980	0.22115	0.51228
	SN->QN (FF)	(D * !G * RN)	0.09234	0.21291	0.50289
	SN->QN (FF)	(D * !G * !RN)	0.09420	0.21530	0.50618
	SN->QN (FF)	(!D * G * RN)	0.09697	0.21772	0.50824
	SN->QN (FF)	(!D * G * !RN)	0.09771	0.21826	0.50892
	SN->QN (FF)	(!D * !G * RN)	0.09288	0.21362	0.50404
	SN->QN (FF)	(!D * !G * !RN)	0.09626	0.21720	0.50801

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX2H7R	hold	G (F)	-0.11229	-0.01900	0.07061
	setup	G (F)	-0.03159	0.04292	0.14531

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX2H7R	hold	G (F)	-0.14680	-0.05841	0.00427
	setup	G (F)	0.05420	0.10801	0.21738

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSRX2H7R	0.9851	-

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATHSRX2H7R	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX2H7R	hold	G (F)	-0.11446	-0.02229	0.07068
	setup	G (F)	-0.03490	0.04487	0.14715

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSRX2H7R	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSRX2H7R	hold	G (F)	-0.10949	-0.06327	-0.01651
	setup	G (F)	0.07152	0.10501	0.14575
	hold	RN (R)	-0.29339	-0.15501	-0.08660
	setup	RN (R)	0.11801	0.20744	0.44429

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX2H7R	**D**	**-**	0.00139	0.00150	0.00172
	D	**-**	0.00006	0.00007	0.00008
	D	**-**	-0.00006	-0.00005	-0.00004
	D	**-**	0.00181	0.00192	0.00214
	G	**-**	0.00199	0.00212	0.00242
	G	**-**	0.00001	0.00002	0.00003
	G	**-**	-0.00004	-0.00003	-0.00002
	G	**-**	0.00244	0.00257	0.00287
	RN	**(D * G)**	0.00140	0.00147	0.00157
	RN	**(D * G)**	0.00006	0.00007	0.00007
	RN	**(D * G)**	-0.00011	-0.00010	-0.00007
	RN	**(D * G)**	0.00196	0.00203	0.00213
	SN	**(D * G * !RN)**	0.00202	0.00216	0.00247
	SN	**(D * G * !RN)**	0.00008	0.00011	0.00014
	SN	**(D * G * !RN)**	-0.00009	-0.00009	-0.00006
	SN	**(D * G * !RN)**	0.00213	0.00227	0.00258
	SN	**(D * !G * RN)**	0.00187	0.00202	0.00233
	SN	**(D * !G * RN)**	0.00002	0.00005	0.00008
	SN	**(D * !G * RN)**	-0.00006	-0.00003	-0.00003
	SN	**(D * !G * RN)**	0.00171	0.00185	0.00217
	SN	**(D * !G * !RN)**	0.00193	0.00209	0.00242
	SN	**(D * !G * !RN)**	0.00006	0.00009	0.00012
	SN	**(D * !G * !RN)**	-0.00007	-0.00006	-0.00005
	SN	**(D * !G * !RN)**	0.00197	0.00212	0.00246
	SN	**(!D * G * RN)**	0.00200	0.00213	0.00245
	SN	**(!D * G * RN)**	0.00008	0.00011	0.00014
	SN	**(!D * G * RN)**	-0.00005	-0.00004	-0.00003
	SN	**(!D * G * RN)**	0.00198	0.00213	0.00248
	SN	**(!D * G * !RN)**	0.00197	0.00211	0.00240
	SN	**(!D * G * !RN)**	0.00009	0.00011	0.00014
	SN	**(!D * G * !RN)**	-0.00005	-0.00003	-0.00002
	SN	**(!D * G * !RN)**	0.00198	0.00211	0.00242
	SN	**(!D * !G * RN)**	0.00187	0.00204	0.00234
	SN	**(!D * !G * RN)**	0.00003	0.00006	0.00009
	SN	**(!D * !G * RN)**	-0.00005	-0.00004	-0.00003
	SN	**(!D * !G * RN)**	0.00176	0.00191	0.00222
	SN	**(!D * !G * !RN)**	0.00193	0.00209	0.00241
	SN	**(!D * !G * !RN)**	0.00009	0.00011	0.00014
	SN	**(!D * !G * !RN)**	-0.00006	-0.00006	-0.00005
	SN	**(!D * !G * !RN)**	0.00197	0.00211	0.00245

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX2H7R	**D**	**-**	0.00183	0.00193	0.00220
	D	**-**	-0.00007	-0.00007	-0.00006
	D	**-**	0.00004	0.00005	0.00006
	D	**-**	0.00141	0.00151	0.00178
	G	**-**	0.00205	0.00217	0.00243
	G	**-**	-0.00003	-0.00002	-0.00001
	G	**-**	0.00002	0.00003	0.00004
	G	**-**	0.00229	0.00241	0.00269
	RN	**(D * G)**	0.00204	0.00212	0.00235
	RN	**(D * G)**	-0.00007	-0.00007	-0.00006
	RN	**(D * G)**	0.00007	0.00010	0.00011
	RN	**(D * G)**	0.00148	0.00157	0.00180
	RN	**(D * !G)**	0.00190	0.00199	0.00220
	RN	**(D * !G)**	-0.00008	-0.00006	-0.00004
	RN	**(D * !G)**	0.00006	0.00007	0.00009
	RN	**(D * !G)**	0.00146	0.00154	0.00175
	RN	**(!D * !G)**	0.00181	0.00190	0.00212
	RN	**(!D * !G)**	-0.00006	-0.00004	-0.00004
	RN	**(!D * !G)**	0.00005	0.00006	0.00007
	RN	**(!D * !G)**	0.00142	0.00151	0.00173
	SN	**(D * G * !RN)**	0.00220	0.00230	0.00259
	SN	**(D * G * !RN)**	-0.00014	-0.00011	-0.00008
	SN	**(D * G * !RN)**	0.00007	0.00009	0.00011
	SN	**(D * G * !RN)**	0.00207	0.00219	0.00249
	SN	**(D * !G * !RN)**	0.00209	0.00219	0.00249
	SN	**(D * !G * !RN)**	-0.00010	-0.00009	-0.00006
	SN	**(D * !G * !RN)**	0.00005	0.00006	0.00007
	SN	**(D * !G * !RN)**	0.00208	0.00218	0.00248
	SN	**(!D * G * RN)**	0.00201	0.00212	0.00240
	SN	**(!D * G * RN)**	-0.00013	-0.00011	-0.00008
	SN	**(!D * G * RN)**	0.00003	0.00004	0.00005
	SN	**(!D * G * RN)**	0.00200	0.00210	0.00238
	SN	**(!D * G * !RN)**	0.00202	0.00215	0.00244
	SN	**(!D * G * !RN)**	-0.00011	-0.00011	-0.00009
	SN	**(!D * G * !RN)**	0.00002	0.00004	0.00005
	SN	**(!D * G * !RN)**	0.00199	0.00213	0.00242
	SN	**(!D * !G * !RN)**	0.00217	0.00228	0.00257
	SN	**(!D * !G * !RN)**	-0.00013	-0.00011	-0.00009
	SN	**(!D * !G * !RN)**	0.00006	0.00007	0.00009
	SN	**(!D * !G * !RN)**	0.00207	0.00219	0.00249

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX2H7R	**D**	**-**	0.00183	0.00193	0.00220
	D	**-**	-0.00007	-0.00006	-0.00006
	D	**-**	0.00004	0.00005	0.00007
	D	**-**	0.00141	0.00151	0.00178
	G	**-**	0.00206	0.00217	0.00243
	G	**-**	-0.00004	-0.00003	-0.00001
	G	**-**	0.00003	0.00003	0.00003
	G	**-**	0.00230	0.00241	0.00269
	RN	**(D * G)**	0.00204	0.00212	0.00236
	RN	**(D * G)**	-0.00007	-0.00007	-0.00005
	RN	**(D * G)**	0.00007	0.00010	0.00010
	RN	**(D * G)**	0.00149	0.00157	0.00181
	RN	**(D * !G)**	0.00191	0.00199	0.00221
	RN	**(D * !G)**	-0.00007	-0.00006	-0.00005
	RN	**(D * !G)**	0.00006	0.00008	0.00010
	RN	**(D * !G)**	0.00145	0.00154	0.00175
	RN	**(!D * !G)**	0.00181	0.00190	0.00212
	RN	**(!D * !G)**	-0.00006	-0.00004	-0.00002
	RN	**(!D * !G)**	0.00003	0.00005	0.00008
	RN	**(!D * !G)**	0.00142	0.00152	0.00173
	SN	**(D * G * !RN)**	0.00220	0.00230	0.00258
	SN	**(D * G * !RN)**	-0.00011	-0.00011	-0.00011
	SN	**(D * G * !RN)**	0.00009	0.00009	0.00011
	SN	**(D * G * !RN)**	0.00209	0.00219	0.00247
	SN	**(D * !G * !RN)**	0.00209	0.00219	0.00250
	SN	**(D * !G * !RN)**	-0.00009	-0.00009	-0.00007
	SN	**(D * !G * !RN)**	0.00004	0.00006	0.00008
	SN	**(D * !G * !RN)**	0.00207	0.00218	0.00251
	SN	**(!D * G * RN)**	0.00201	0.00212	0.00240
	SN	**(!D * G * RN)**	-0.00012	-0.00011	-0.00011
	SN	**(!D * G * RN)**	0.00004	0.00004	0.00004
	SN	**(!D * G * RN)**	0.00199	0.00210	0.00239
	SN	**(!D * G * !RN)**	0.00203	0.00215	0.00244
	SN	**(!D * G * !RN)**	-0.00011	-0.00011	-0.00010
	SN	**(!D * G * !RN)**	0.00002	0.00004	0.00005
	SN	**(!D * G * !RN)**	0.00200	0.00213	0.00243
	SN	**(!D * !G * !RN)**	0.00217	0.00228	0.00259
	SN	**(!D * !G * !RN)**	-0.00011	-0.00011	-0.00008
	SN	**(!D * !G * !RN)**	0.00005	0.00007	0.00010
	SN	**(!D * !G * !RN)**	0.00206	0.00219	0.00252

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATHSRX2H7R	**D**	**-**	0.00139	0.00150	0.00172
	D	**-**	0.00006	0.00007	0.00008
	D	**-**	-0.00006	-0.00005	-0.00004
	D	**-**	0.00181	0.00192	0.00214
	G	**-**	0.00199	0.00212	0.00241
	G	**-**	0.00001	0.00003	0.00004
	G	**-**	-0.00003	-0.00003	-0.00003
	G	**-**	0.00245	0.00257	0.00287
	RN	**(D * G)**	0.00141	0.00147	0.00157
	RN	**(D * G)**	0.00006	0.00007	0.00007
	RN	**(D * G)**	-0.00010	-0.00010	-0.00007
	RN	**(D * G)**	0.00196	0.00203	0.00214
	SN	**(D * G * !RN)**	0.00202	0.00216	0.00246
	SN	**(D * G * !RN)**	0.00011	0.00011	0.00011
	SN	**(D * G * !RN)**	-0.00009	-0.00009	-0.00009
	SN	**(D * G * !RN)**	0.00212	0.00226	0.00257
	SN	**(D * !G * RN)**	0.00189	0.00202	0.00232
	SN	**(D * !G * RN)**	0.00003	0.00005	0.00008
	SN	**(D * !G * RN)**	-0.00004	-0.00003	-0.00001
	SN	**(D * !G * RN)**	0.00171	0.00185	0.00216
	SN	**(D * !G * !RN)**	0.00195	0.00209	0.00239
	SN	**(D * !G * !RN)**	0.00007	0.00009	0.00009
	SN	**(D * !G * !RN)**	-0.00008	-0.00006	-0.00004
	SN	**(D * !G * !RN)**	0.00197	0.00211	0.00242
	SN	**(!D * G * RN)**	0.00199	0.00213	0.00242
	SN	**(!D * G * RN)**	0.00011	0.00011	0.00013
	SN	**(!D * G * RN)**	-0.00004	-0.00004	-0.00003
	SN	**(!D * G * RN)**	0.00200	0.00213	0.00243
	SN	**(!D * G * !RN)**	0.00197	0.00211	0.00240
	SN	**(!D * G * !RN)**	0.00010	0.00011	0.00011
	SN	**(!D * G * !RN)**	-0.00004	-0.00003	-0.00001
	SN	**(!D * G * !RN)**	0.00196	0.00211	0.00241
	SN	**(!D * !G * RN)**	0.00189	0.00204	0.00233
	SN	**(!D * !G * RN)**	0.00005	0.00006	0.00009
	SN	**(!D * !G * RN)**	-0.00006	-0.00004	-0.00002
	SN	**(!D * !G * RN)**	0.00176	0.00191	0.00222
	SN	**(!D * !G * !RN)**	0.00195	0.00209	0.00238
	SN	**(!D * !G * !RN)**	0.00008	0.00011	0.00011
	SN	**(!D * !G * !RN)**	-0.00007	-0.00006	-0.00005
	SN	**(!D * !G * !RN)**	0.00197	0.00210	0.00240

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7R	(G * RN * !SN)	-0.00003	-0.00003	-0.00003
	(G * RN * !SN)	-0.00002	-0.00002	-0.00002
	(G * RN * !SN)	0.00001	0.00001	0.00001
	(G * RN * !SN)	0.00031	0.00032	0.00032
	(G * !RN * SN)	-0.00025	-0.00025	-0.00025
	(G * !RN * SN)	-0.00001	-0.00000	0.00000
	(G * !RN * SN)	0.00002	0.00002	0.00003
	(G * !RN * SN)	0.00009	0.00010	0.00010
	(G * !RN * !SN)	-0.00004	-0.00003	-0.00003
	(G * !RN * !SN)	-0.00002	-0.00002	-0.00002
	(G * !RN * !SN)	0.00001	0.00001	0.00002
	(G * !RN * !SN)	0.00030	0.00030	0.00030
	(!G * RN * SN)	0.00003	0.00018	0.00070
	(!G * RN * SN)	0.00008	0.00008	0.00008
	(!G * RN * SN)	-0.00006	-0.00005	-0.00005
	(!G * RN * SN)	0.00070	0.00085	0.00137
	(!G * RN * !SN)	-0.00006	-0.00006	-0.00005
	(!G * RN * !SN)	-0.00003	-0.00002	-0.00002
	(!G * RN * !SN)	0.00001	0.00001	0.00001
	(!G * RN * !SN)	0.00028	0.00028	0.00029
	(!G * !RN * SN)	-0.00026	-0.00024	-0.00022
	(!G * !RN * SN)	0.00000	0.00000	0.00000
	(!G * !RN * SN)	0.00002	0.00003	0.00003
	(!G * !RN * SN)	0.00007	0.00008	0.00008
	(!G * !RN * !SN)	-0.00006	-0.00006	-0.00006
	(!G * !RN * !SN)	-0.00003	-0.00003	-0.00002
	(!G * !RN * !SN)	0.00001	0.00001	0.00002
	(!G * !RN * !SN)	0.00026	0.00026	0.00027

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7R	(G * RN * !SN)	0.00003	0.00003	0.00003
	(G * RN * !SN)	0.00002	0.00002	0.00002
	(G * RN * !SN)	-0.00000	-0.00000	-0.00000
	(G * RN * !SN)	-0.00032	-0.00032	-0.00031
	(G * !RN * SN)	0.00025	0.00025	0.00025
	(G * !RN * SN)	0.00001	0.00001	0.00001
	(G * !RN * SN)	-0.00002	-0.00002	-0.00002
	(G * !RN * SN)	-0.00010	-0.00009	-0.00009
	(G * !RN * !SN)	0.00003	0.00004	0.00005
	(G * !RN * !SN)	0.00002	0.00002	0.00002
	(G * !RN * !SN)	-0.00002	-0.00001	-0.00001
	(G * !RN * !SN)	-0.00030	-0.00029	-0.00026
	(!G * RN * SN)	0.00065	0.00081	0.00136
	(!G * RN * SN)	-0.00008	-0.00008	-0.00008
	(!G * RN * SN)	0.00005	0.00006	0.00006
	(!G * RN * SN)	-0.00001	0.00014	0.00069
	(!G * RN * !SN)	0.00006	0.00007	0.00007
	(!G * RN * !SN)	0.00003	0.00003	0.00004
	(!G * RN * !SN)	-0.00001	-0.00001	-0.00001
	(!G * RN * !SN)	-0.00027	-0.00025	-0.00023
	(!G * !RN * SN)	0.00033	0.00034	0.00034
	(!G * !RN * SN)	0.00000	0.00000	0.00000
	(!G * !RN * SN)	-0.00002	-0.00002	-0.00001
	(!G * !RN * SN)	-0.00005	-0.00005	-0.00004
	(!G * !RN * !SN)	0.00006	0.00007	0.00007
	(!G * !RN * !SN)	0.00003	0.00003	0.00004
	(!G * !RN * !SN)	-0.00002	-0.00001	-0.00001
	(!G * !RN * !SN)	-0.00026	-0.00025	-0.00022

Passive power(pJ) for G rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATHSRX2H7R	**(D * RN * SN)**	0.00114	0.00127	0.00173
	(D * RN * SN)	-0.00001	-0.00001	-0.00000
	(D * RN * SN)	0.00000	0.00001	0.00001
	(D * RN * SN)	0.00183	0.00196	0.00242
	(D * RN * !SN)	0.00118	0.00131	0.00177
	(D * RN * !SN)	-0.00003	-0.00003	-0.00002
	(D * RN * !SN)	0.00000	0.00001	0.00001
	(D * RN * !SN)	0.00184	0.00197	0.00243
	(D * !RN * SN)	0.00109	0.00122	0.00169
	(D * !RN * SN)	-0.00000	0.00000	0.00001
	(D * !RN * SN)	-0.00000	-0.00000	0.00000
	(D * !RN * SN)	0.00180	0.00193	0.00240
	(D * !RN * !SN)	0.00118	0.00130	0.00176
	(D * !RN * !SN)	-0.00002	-0.00002	-0.00002
	(D * !RN * !SN)	0.00000	0.00001	0.00001
	(D * !RN * !SN)	0.00184	0.00197	0.00243
	(!D * RN * SN)	0.00110	0.00122	0.00169
	(!D * RN * SN)	-0.00001	-0.00000	0.00001
	(!D * RN * SN)	-0.00000	-0.00000	0.00000
	(!D * RN * SN)	0.00180	0.00193	0.00239
	(!D * RN * !SN)	0.00118	0.00130	0.00176
	(!D * RN * !SN)	-0.00003	-0.00002	-0.00002
	(!D * RN * !SN)	0.00000	0.00001	0.00001
	(!D * RN * !SN)	0.00183	0.00195	0.00241
	(!D * !RN * SN)	0.00110	0.00123	0.00169
	(!D * !RN * SN)	-0.00001	-0.00000	0.00000
	(!D * !RN * SN)	-0.00001	-0.00000	0.00001
	(!D * !RN * SN)	0.00180	0.00193	0.00240
	(!D * !RN * !SN)	0.00118	0.00131	0.00176
	(!D * !RN * !SN)	-0.00002	-0.00002	-0.00001
	(!D * !RN * !SN)	-0.00000	0.00000	0.00000
	(!D * !RN * !SN)	0.00185	0.00198	0.00243

Passive power(pJ) for G falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATHSRX2H7R	**(D * RN * SN)**	0.00181	0.00194	0.00244
	(D * RN * SN)	0.00000	0.00001	0.00001
	(D * RN * SN)	-0.00001	-0.00000	0.00000
	(D * RN * SN)	0.00112	0.00126	0.00175
	(D * RN * !SN)	0.00177	0.00191	0.00240
	(D * RN * !SN)	0.00002	0.00003	0.00003
	(D * RN * !SN)	-0.00001	-0.00001	-0.00000
	(D * RN * !SN)	0.00110	0.00124	0.00173
	(D * !RN * SN)	0.00185	0.00198	0.00247
	(D * !RN * SN)	-0.00001	-0.00000	0.00000
	(D * !RN * SN)	-0.00000	0.00000	0.00001
	(D * !RN * SN)	0.00112	0.00127	0.00176
	(D * !RN * !SN)	0.00177	0.00190	0.00240
	(D * !RN * !SN)	0.00002	0.00002	0.00002
	(D * !RN * !SN)	-0.00001	-0.00000	0.00000
	(D * !RN * !SN)	0.00110	0.00123	0.00173
	(!D * RN * SN)	0.00183	0.00198	0.00247
	(!D * RN * SN)	0.00000	0.00000	0.00001
	(!D * RN * SN)	0.00000	0.00000	0.00001
	(!D * RN * SN)	0.00114	0.00127	0.00177
	(!D * RN * !SN)	0.00177	0.00191	0.00240
	(!D * RN * !SN)	0.00002	0.00003	0.00003
	(!D * RN * !SN)	-0.00001	-0.00001	-0.00000
	(!D * RN * !SN)	0.00113	0.00126	0.00174
	(!D * !RN * SN)	0.00184	0.00198	0.00247
	(!D * !RN * SN)	0.00000	0.00000	0.00001
	(!D * !RN * SN)	0.00000	0.00001	0.00001
	(!D * !RN * SN)	0.00113	0.00127	0.00176
	(!D * !RN * !SN)	0.00177	0.00190	0.00239
	(!D * !RN * !SN)	0.00002	0.00002	0.00003
	(!D * !RN * !SN)	-0.00000	-0.00000	0.00000
	(!D * !RN * !SN)	0.00111	0.00124	0.00172

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7R	(D * G * !SN)	-0.00009	-0.00009	-0.00009
	(D * G * !SN)	-0.00002	-0.00002	-0.00001
	(D * G * !SN)	0.00000	0.00001	0.00001
	(D * G * !SN)	0.00032	0.00032	0.00033
	(D * !G * SN)	-0.00020	-0.00020	-0.00020
	(D * !G * SN)	-0.00001	-0.00001	-0.00000
	(D * !G * SN)	0.00000	0.00001	0.00001
	(D * !G * SN)	0.00026	0.00026	0.00027
	(D * !G * !SN)	-0.00009	-0.00008	-0.00008
	(D * !G * !SN)	-0.00002	-0.00002	-0.00001
	(D * !G * !SN)	-0.00000	0.00000	0.00001
	(D * !G * !SN)	0.00033	0.00033	0.00034
	(!D * G * SN)	-0.00020	-0.00020	-0.00020
	(!D * G * SN)	-0.00000	-0.00000	0.00000
	(!D * G * SN)	0.00000	0.00001	0.00001
	(!D * G * SN)	0.00027	0.00027	0.00028
	(!D * G * !SN)	-0.00010	-0.00010	-0.00009
	(!D * G * !SN)	-0.00002	-0.00002	-0.00001
	(!D * G * !SN)	0.00001	0.00002	0.00002
	(!D * G * !SN)	0.00030	0.00030	0.00031
	(!D * !G * SN)	-0.00020	-0.00020	-0.00020
	(!D * !G * SN)	-0.00000	-0.00000	-0.00000
	(!D * !G * SN)	0.00000	0.00001	0.00001
	(!D * !G * SN)	0.00027	0.00027	0.00028
	(!D * !G * !SN)	-0.00008	-0.00008	-0.00008
	(!D * !G * !SN)	-0.00002	-0.00002	-0.00001
	(!D * !G * !SN)	0.00000	0.00001	0.00001
	(!D * !G * !SN)	0.00033	0.00033	0.00033

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7R	(D * G * !SN)	0.00009	0.00009	0.00010
	(D * G * !SN)	0.00001	0.00002	0.00002
	(D * G * !SN)	-0.00001	-0.00001	-0.00000
	(D * G * !SN)	-0.00032	-0.00032	-0.00032
	(D * !G * SN)	0.00020	0.00021	0.00021
	(D * !G * SN)	0.00000	0.00001	0.00001
	(D * !G * SN)	-0.00001	-0.00001	-0.00000
	(D * !G * SN)	-0.00026	-0.00025	-0.00022
	(D * !G * !SN)	0.00008	0.00009	0.00009
	(D * !G * !SN)	0.00001	0.00002	0.00002
	(D * !G * !SN)	-0.00001	-0.00000	0.00000
	(D * !G * !SN)	-0.00033	-0.00033	-0.00033
	(!D * G * SN)	0.00020	0.00020	0.00021
	(!D * G * SN)	0.00000	0.00000	0.00001
	(!D * G * SN)	-0.00001	-0.00001	0.00000
	(!D * G * SN)	-0.00027	-0.00026	-0.00023
	(!D * G * !SN)	0.00010	0.00010	0.00011
	(!D * G * !SN)	0.00001	0.00002	0.00002
	(!D * G * !SN)	-0.00002	-0.00001	-0.00001
	(!D * G * !SN)	-0.00031	-0.00030	-0.00028
	(!D * !G * SN)	0.00020	0.00020	0.00021
	(!D * !G * SN)	0.00000	0.00000	0.00001
	(!D * !G * SN)	-0.00001	-0.00001	-0.00000
	(!D * !G * SN)	-0.00027	-0.00026	-0.00025
	(!D * !G * !SN)	0.00008	0.00008	0.00009
	(!D * !G * !SN)	0.00001	0.00002	0.00002
	(!D * !G * !SN)	-0.00001	-0.00000	0.00000
	(!D * !G * !SN)	-0.00033	-0.00033	-0.00033

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7R	(D * G * RN)	0.00002	0.00017	0.00069
	(D * G * RN)	0.00004	0.00005	0.00005
	(D * G * RN)	-0.00003	-0.00003	-0.00002
	(D * G * RN)	0.00069	0.00084	0.00136
	(D * !G * RN)	0.00002	0.00017	0.00069
	(D * !G * RN)	0.00003	0.00005	0.00005
	(D * !G * RN)	-0.00003	-0.00002	-0.00002
	(D * !G * RN)	0.00069	0.00083	0.00135
	(!D * !G * RN)	0.00001	0.00016	0.00068
	(!D * !G * RN)	0.00004	0.00005	0.00005
	(!D * !G * RN)	-0.00003	-0.00003	-0.00002
	(!D * !G * RN)	0.00069	0.00083	0.00135

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATHSRX2H7R	(D * G * RN)	0.00083	0.00099	0.00153
	(D * G * RN)	-0.00005	-0.00005	-0.00004
	(D * G * RN)	0.00002	0.00003	0.00003
	(D * G * RN)	0.00015	0.00031	0.00086
	(D * !G * RN)	0.00084	0.00099	0.00154
	(D * !G * RN)	-0.00005	-0.00005	-0.00003
	(D * !G * RN)	0.00002	0.00003	0.00003
	(D * !G * RN)	0.00016	0.00032	0.00087
	(!D * !G * RN)	0.00084	0.00100	0.00154
	(!D * !G * RN)	-0.00005	-0.00005	-0.00004
	(!D * !G * RN)	0.00002	0.00003	0.00003
	(!D * !G * RN)	0.00016	0.00032	0.00087

LATHSX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !SN ? 1 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	SN	Q	QN
x	x	0	1	0
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHSX0P5H7R	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	**G**	**SN**	**Q**	**QN**
LATHSX0P5H7R	0.00111	0.00080	0.00087	0.05930	0.05951

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
LATHSX0P5H7R	0.00000	0.94237	1.18299

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX0P5H7R	D->Q (RR)	-	0.06018	0.21792	0.59542
	G->Q (RR)	SN	0.07727	0.22454	0.56765
	SN->Q (FR)	-	0.06412	0.21384	0.57469

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX0P5H7R	D->Q (FF)	-	0.09205	0.24457	0.59352
	G->Q (RF)	SN	0.08432	0.21974	0.50647
	SN->Q (RF)	-	0.10558	0.23472	0.50753

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX0P5H7R	D->QN (FR)	-	0.12967	0.28658	0.68033
	G->QN (RR)	SN	0.12294	0.26347	0.60835
	SN->QN (RR)	-	0.14319	0.27761	0.60899

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX0P5H7R	D->QN (RF)	-	0.08984	0.21550	0.51122
	G->QN (RF)	SN	0.10681	0.22271	0.49284
	SN->QN (FF)	-	0.09239	0.21295	0.50168

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX0P5H7R	hold	G (F)	-0.09441	-0.01327	0.06764
	setup	G (F)	-0.03405	0.03341	0.12682

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX0P5H7R	hold	G (F)	-0.16177	-0.07044	-0.00601
	setup	G (F)	0.05870	0.11234	0.21943

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSX0P5H7R	0.9851	-

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX0P5H7R	recovery	G (F)	0.07027	0.10409	0.14804
	removal	G (F)	-0.11653	-0.06879	-0.02129

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSX0P5H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX0P5H7R	D	-	0.00122	0.00130	0.00150
	D	-	0.00004	0.00005	0.00006
	D	-	-0.00005	-0.00005	-0.00004
	D	-	0.00170	0.00178	0.00199
	G	SN	0.00169	0.00179	0.00209
	G	SN	0.00001	0.00001	0.00002
	G	SN	-0.00003	-0.00002	-0.00001
	G	SN	0.00200	0.00211	0.00240
	SN	-	0.00179	0.00191	0.00218
	SN	-	0.00005	0.00007	0.00009
	SN	-	-0.00004	-0.00003	-0.00002
	SN	-	0.00172	0.00183	0.00210

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX0P5H7R	D	-	0.00170	0.00177	0.00202
	D	-	-0.00005	-0.00005	-0.00004
	D	-	0.00004	0.00005	0.00005
	D	-	0.00120	0.00129	0.00154
	G	SN	0.00168	0.00177	0.00204
	G	SN	-0.00002	-0.00001	-0.00001
	G	SN	0.00001	0.00002	0.00003
	G	SN	0.00190	0.00199	0.00226
	SN	-	0.00177	0.00186	0.00212
	SN	-	-0.00008	-0.00007	-0.00005
	SN	-	0.00003	0.00004	0.00005
	SN	-	0.00184	0.00192	0.00219

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX0P5H7R	D	-	0.00169	0.00177	0.00203
	D	-	-0.00005	-0.00005	-0.00004
	D	-	0.00004	0.00005	0.00006
	D	-	0.00121	0.00129	0.00154
	G	SN	0.00168	0.00177	0.00205
	G	SN	-0.00002	-0.00001	-0.00001
	G	SN	0.00002	0.00002	0.00003
	G	SN	0.00190	0.00200	0.00227
	SN	-	0.00177	0.00186	0.00213
	SN	-	-0.00007	-0.00007	-0.00005
	SN	-	0.00003	0.00004	0.00005
	SN	-	0.00184	0.00193	0.00221

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX0P5H7R	D	-	0.00122	0.00130	0.00150
	D	-	0.00005	0.00005	0.00005
	D	-	-0.00006	-0.00005	-0.00004
	D	-	0.00171	0.00178	0.00199
	G	SN	0.00169	0.00179	0.00209
	G	SN	0.00001	0.00001	0.00002
	G	SN	-0.00003	-0.00002	-0.00002
	G	SN	0.00201	0.00211	0.00241
	SN	-	0.00180	0.00190	0.00217
	SN	-	0.00005	0.00007	0.00008
	SN	-	-0.00003	-0.00003	-0.00001
	SN	-	0.00172	0.00183	0.00210

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7R	0.00007	0.00020	0.00067
	0.00007	0.00007	0.00008
	-0.00005	-0.00005	-0.00004
	0.00098	0.00111	0.00159

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7R	0.00081	0.00095	0.00144
	-0.00007	-0.00007	-0.00007
	0.00005	0.00005	0.00005
	-0.00009	0.00004	0.00053

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7R	0.00087	0.00100	0.00149
	-0.00000	0.00000	0.00001
	0.00000	0.00000	0.00000
	0.00141	0.00154	0.00204

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7R	0.00159	0.00173	0.00225
	0.00000	0.00000	0.00001
	0.00000	0.00000	0.00000
	0.00109	0.00123	0.00173

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7R	0.00010	0.00024	0.00073
	0.00005	0.00006	0.00006
	-0.00003	-0.00003	-0.00002
	0.00087	0.00101	0.00150

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX0P5H7R	0.00095	0.00109	0.00160
	-0.00006	-0.00006	-0.00005
	0.00002	0.00003	0.00003
	0.00019	0.00033	0.00085

LATHSX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !SN ? 1 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	SN	Q	QN
x	x	0	1	0
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHSX1H7R	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	G	SN	Q	QN
LATHSX1H7R	0.00111	0.00080	0.00087	0.07016	0.07035

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHSX1H7R	0.00000	0.98234	1.22293

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX1H7R	D->Q (RR)	-	0.05929	0.21813	0.59722
	G->Q (RR)	SN	0.07629	0.22446	0.56863
	SN->Q (FR)	-	0.06308	0.21349	0.57490

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX1H7R	D->Q (FF)	-	0.09133	0.24610	0.59882
	G->Q (RF)	SN	0.08362	0.22112	0.51086
	SN->Q (RF)	-	0.10486	0.23610	0.51190

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX1H7R	D->QN (FR)	-	0.13134	0.28838	0.68287
	G->QN (RR)	SN	0.12468	0.26505	0.61009
	SN->QN (RR)	-	0.14487	0.27919	0.61086

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX1H7R	D->QN (RF)	-	0.09071	0.21765	0.51636
	G->QN (RF)	SN	0.10758	0.22451	0.49750
	SN->QN (FF)	-	0.09282	0.21450	0.50568

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX1H7R	hold	G (F)	-0.09488	-0.01364	0.07028
	setup	G (F)	-0.03226	0.03507	0.13114

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX1H7R	hold	G (F)	-0.16225	-0.07043	-0.00670
	setup	G (F)	0.05826	0.11459	0.22398

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSX1H7R	0.9851	-

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX1H7R	recovery	G (F)	0.07255	0.10626	0.15206
	removal	G (F)	-0.11653	-0.06900	-0.02263

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSX1H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX1H7R	D	-	0.00126	0.00135	0.00156
	D	-	0.00004	0.00005	0.00006
	D	-	-0.00005	-0.00005	-0.00003
	D	-	0.00175	0.00183	0.00205
	G	SN	0.00173	0.00185	0.00215
	G	SN	0.00000	0.00001	0.00003
	G	SN	-0.00004	-0.00002	-0.00001
	G	SN	0.00205	0.00216	0.00247
	SN	-	0.00184	0.00195	0.00223
	SN	-	0.00004	0.00007	0.00009
	SN	-	-0.00003	-0.00003	-0.00002
	SN	-	0.00177	0.00188	0.00216

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX1H7R	D	-	0.00175	0.00183	0.00210
	D	-	-0.00006	-0.00005	-0.00004
	D	-	0.00003	0.00005	0.00006
	D	-	0.00127	0.00135	0.00162
	G	SN	0.00174	0.00183	0.00210
	G	SN	-0.00003	-0.00001	-0.00000
	G	SN	0.00001	0.00002	0.00004
	G	SN	0.00195	0.00205	0.00233
	SN	-	0.00183	0.00192	0.00217
	SN	-	-0.00007	-0.00007	-0.00004
	SN	-	0.00003	0.00004	0.00005
	SN	-	0.00190	0.00198	0.00224

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX1H7R	D	-	0.00175	0.00183	0.00210
	D	-	-0.00005	-0.00005	-0.00004
	D	-	0.00003	0.00005	0.00006
	D	-	0.00127	0.00135	0.00162
	G	SN	0.00173	0.00183	0.00211
	G	SN	-0.00002	-0.00001	-0.00001
	G	SN	0.00001	0.00003	0.00003
	G	SN	0.00195	0.00205	0.00234
	SN	-	0.00183	0.00192	0.00218
	SN	-	-0.00007	-0.00007	-0.00005
	SN	-	0.00002	0.00004	0.00005
	SN	-	0.00189	0.00198	0.00225

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX1H7R	D	-	0.00127	0.00135	0.00156
	D	-	0.00004	0.00005	0.00005
	D	-	-0.00005	-0.00005	-0.00003
	D	-	0.00175	0.00183	0.00204
	G	SN	0.00174	0.00184	0.00214
	G	SN	0.00001	0.00001	0.00002
	G	SN	-0.00003	-0.00003	-0.00001
	G	SN	0.00204	0.00216	0.00246
	SN	-	0.00185	0.00195	0.00223
	SN	-	0.00005	0.00007	0.00007
	SN	-	-0.00004	-0.00003	-0.00001
	SN	-	0.00177	0.00187	0.00215

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7R	0.00008	0.00020	0.00067
	0.00007	0.00007	0.00008
	-0.00005	-0.00004	-0.00004
	0.00098	0.00111	0.00158

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7R	0.00081	0.00095	0.00144
	-0.00007	-0.00007	-0.00007
	0.00005	0.00005	0.00005
	-0.00010	0.00004	0.00053

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7R	0.00087	0.00100	0.00149
	-0.00001	0.00000	0.00001
	0.00000	0.00000	0.00000
	0.00141	0.00155	0.00204

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7R	0.00159	0.00173	0.00225
	-0.00000	0.00000	0.00001
	-0.00000	-0.00000	0.00000
	0.00108	0.00123	0.00173

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7R	0.00010	0.00024	0.00073
	0.00005	0.00006	0.00006
	-0.00003	-0.00003	-0.00002
	0.00087	0.00101	0.00150

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX1H7R	0.00095	0.00109	0.00160
	-0.00006	-0.00006	-0.00005
	0.00002	0.00003	0.00003
	0.00019	0.00033	0.00085

LATHSX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !SN ? 1 : G ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	G	SN	Q	QN
x	x	0	1	0
x	0	1	IQ	IQN
0	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
LATHSX2H7R	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	G	SN	Q	QN
LATHSX2H7R	0.00111	0.00079	0.00087	0.08908	0.08925

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHSX2H7R	0.00000	1.09268	1.32717

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX2H7R	D->Q (RR)	-	0.06023	0.22207	0.60656
	G->Q (RR)	SN	0.07667	0.22762	0.57549
	SN->Q (FR)	-	0.06343	0.21544	0.57937

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX2H7R	D->Q (FF)	-	0.09361	0.25198	0.60874
	G->Q (RF)	SN	0.08632	0.22759	0.52012
	SN->Q (RF)	-	0.10709	0.24129	0.51852

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX2H7R	D->QN (FR)	-	0.14263	0.30086	0.70005
	G->QN (RR)	SN	0.13639	0.27769	0.62586
	SN->QN (RR)	-	0.15612	0.29059	0.62347

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHSX2H7R	D->QN (RF)	-	0.09821	0.22667	0.52768
	G->QN (RF)	SN	0.11455	0.23235	0.50482
	SN->QN (FF)	-	0.09868	0.22086	0.51126

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX2H7R	hold	G (F)	-0.10076	-0.01611	0.07080
	setup	G (F)	-0.02999	0.04000	0.13996

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX2H7R	hold	G (F)	-0.16732	-0.07330	-0.00852
	setup	G (F)	0.06550	0.12427	0.23959

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHSX2H7R	0.9851	-

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHSX2H7R	recovery	G (F)	0.07521	0.11451	0.16180
	removal	G (F)	-0.11982	-0.07085	-0.02050

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATHSX2H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX2H7R	D	-	0.00147	0.00156	0.00182
	D	-	0.00004	0.00005	0.00006
	D	-	-0.00006	-0.00005	-0.00004
	D	-	0.00196	0.00205	0.00231
	G	SN	0.00198	0.00209	0.00240
	G	SN	0.00000	0.00001	0.00001
	G	SN	-0.00004	-0.00003	-0.00002
	G	SN	0.00228	0.00239	0.00271
	SN	-	0.00200	0.00214	0.00245
	SN	-	0.00004	0.00007	0.00009
	SN	-	-0.00004	-0.00003	-0.00001
	SN	-	0.00198	0.00209	0.00237

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX2H7R	D	-	0.00194	0.00203	0.00237
	D	-	-0.00005	-0.00005	-0.00004
	D	-	0.00004	0.00005	0.00006
	D	-	0.00146	0.00154	0.00189
	G	SN	0.00197	0.00206	0.00234
	G	SN	-0.00001	-0.00001	0.00000
	G	SN	0.00002	0.00003	0.00004
	G	SN	0.00218	0.00228	0.00256
	SN	-	0.00202	0.00211	0.00237
	SN	-	-0.00007	-0.00007	-0.00004
	SN	-	0.00002	0.00004	0.00004
	SN	-	0.00209	0.00218	0.00244

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX2H7R	D	-	0.00195	0.00203	0.00237
	D	-	-0.00006	-0.00005	-0.00004
	D	-	0.00004	0.00005	0.00006
	D	-	0.00146	0.00154	0.00189
	G	SN	0.00197	0.00206	0.00235
	G	SN	-0.00002	-0.00001	-0.00000
	G	SN	0.00003	0.00003	0.00004
	G	SN	0.00218	0.00228	0.00257
	SN	-	0.00201	0.00211	0.00237
	SN	-	-0.00008	-0.00007	-0.00006
	SN	-	0.00003	0.00004	0.00005
	SN	-	0.00209	0.00218	0.00244

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHSX2H7R	D	-	0.00147	0.00156	0.00182
	D	-	0.00004	0.00005	0.00006
	D	-	-0.00005	-0.00005	-0.00004
	D	-	0.00195	0.00204	0.00231
	G	SN	0.00197	0.00209	0.00239
	G	SN	0.00000	0.00001	0.00002
	G	SN	-0.00004	-0.00003	-0.00003
	G	SN	0.00229	0.00239	0.00270
	SN	-	0.00204	0.00216	0.00244
	SN	-	0.00006	0.00007	0.00008
	SN	-	-0.00003	-0.00003	-0.00001
	SN	-	0.00196	0.00209	0.00237

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7R	0.00008	0.00020	0.00067
	0.00007	0.00008	0.00008
	-0.00005	-0.00004	-0.00003
	0.00098	0.00111	0.00159

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7R	0.00081	0.00095	0.00144
	-0.00008	-0.00007	-0.00007
	0.00005	0.00005	0.00005
	-0.00010	0.00004	0.00053

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7R	0.00092	0.00105	0.00155
	-0.00001	-0.00001	-0.00000
	0.00000	0.00001	0.00002
	0.00143	0.00157	0.00206

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7R	0.00164	0.00179	0.00231
	0.00001	0.00001	0.00001
	-0.00002	-0.00001	0.00000
	0.00115	0.00129	0.00181

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7R	0.00010	0.00024	0.00073
	0.00005	0.00006	0.00006
	-0.00003	-0.00003	-0.00002
	0.00087	0.00101	0.00150

Passive power(pJ) for SN falling :

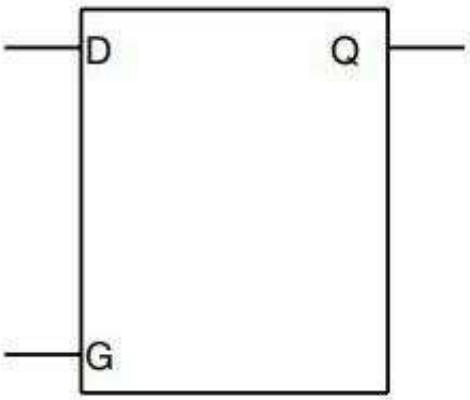
Cell Name	Power(pJ)		
	min	avg	max
LATHSX2H7R	0.00095	0.00109	0.00160
	-0.00006	-0.00006	-0.00005
	0.00002	0.00003	0.00003
	0.00019	0.00034	0.00085

LATHX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch
Q = G ? D : pre_Q
QN = !Q



Truth Table

INPUT		OUTPUT	
D	G	Q	QN
x	0	IQ	IQN
0	1	0	1
1	1	1	0

Footprint

Cell Name	Area
LATHX0P5H7R	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	G	Q	QN
LATHX0P5H7R	0.00071	0.00093	0.05950	0.05955

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHX0P5H7R	0.00000	0.70593	0.80860

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX0P5H7R	D->Q (RR)	G	0.05014	0.20142	0.56815
	G->Q (RR)	-	0.08441	0.23013	0.57371

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX0P5H7R	D->Q (FF)	G	0.05999	0.19648	0.51984
	G->Q (RF)	-	0.06953	0.19646	0.48082

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX0P5H7R	D->QN (FR)	G	0.08646	0.23708	0.61542
	G->QN (RR)	-	0.09623	0.23836	0.58819

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX0P5H7R	D->QN (RF)	G	0.07363	0.19288	0.47878
	G->QN (RF)	-	0.10815	0.22261	0.49276

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX0P5H7R	hold	G (F)	-0.07206	0.00499	0.07665
	setup	G (F)	-0.06040	0.01037	0.09449

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX0P5H7R	hold	G (F)	-0.12448	-0.04543	0.00466
	setup	G (F)	0.03135	0.07347	0.16273

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHX0P5H7R	0.9851	-

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX0P5H7R	D	G	0.00093	0.00100	0.00113
	D	G	0.00002	0.00004	0.00005
	D	G	-0.00004	-0.00003	-0.00003
	D	G	0.00127	0.00132	0.00146
	G	-	0.00151	0.00160	0.00186
	G	-	0.00002	0.00004	0.00006
	G	-	-0.00003	-0.00003	-0.00000
	G	-	0.00192	0.00202	0.00229

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX0P5H7R	D	G	0.00122	0.00128	0.00141
	D	G	-0.00004	-0.00003	-0.00002
	D	G	0.00003	0.00003	0.00005
	D	G	0.00088	0.00094	0.00108
	G	-	0.00149	0.00159	0.00186
	G	-	-0.00003	-0.00003	-0.00002
	G	-	0.00002	0.00003	0.00005
	G	-	0.00175	0.00186	0.00213

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX0P5H7R	D	G	0.00121	0.00128	0.00141
	D	G	-0.00004	-0.00003	-0.00002
	D	G	0.00003	0.00003	0.00004
	D	G	0.00089	0.00094	0.00109
	G	-	0.00150	0.00159	0.00187
	G	-	-0.00003	-0.00003	-0.00001
	G	-	0.00001	0.00003	0.00003
	G	-	0.00177	0.00186	0.00214

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX0P5H7R	D	G	0.00094	0.00100	0.00113
	D	G	0.00003	0.00003	0.00004
	D	G	-0.00004	-0.00003	-0.00003
	D	G	0.00127	0.00132	0.00147
	G	-	0.00150	0.00159	0.00185
	G	-	0.00004	0.00004	0.00004
	G	-	-0.00003	-0.00003	-0.00001
	G	-	0.00192	0.00202	0.00228

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX0P5H7R	-0.00018	-0.00018	-0.00017
	-0.00001	-0.00001	-0.00001
	0.00001	0.00001	0.00001
	0.00024	0.00024	0.00025

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX0P5H7R	0.00018	0.00019	0.00019
	0.00001	0.00001	0.00002
	-0.00001	-0.00001	-0.00001
	-0.00024	-0.00023	-0.00023

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX0P5H7R	0.00099	0.00112	0.00158
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	0.00168	0.00181	0.00228

Passive power(pJ) for G falling :

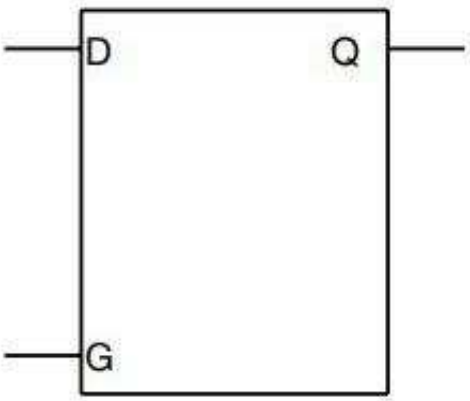
Cell Name	Power(pJ)		
	min	avg	max
LATHX0P5H7R	0.00167	0.00181	0.00231
	-0.00001	-0.00000	0.00000
	-0.00000	-0.00000	0.00000
	0.00101	0.00115	0.00164

LATHX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch
Q = G ? D : pre_Q
QN = !Q



Truth Table

INPUT		OUTPUT	
D	G	Q	QN
x	0	IQ	IQN
0	1	0	1
1	1	1	0

Footprint

Cell Name	Area
LATHX1H7R	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	G	Q	QN
LATHX1H7R	0.00061	0.00093	0.07027	0.07050

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHX1H7R	0.00000	0.72828	0.81270

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX1H7R	D->Q (RR)	G	0.05493	0.21002	0.58163
	G->Q (RR)	-	0.08962	0.23715	0.58023

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX1H7R	D->Q (FF)	G	0.08367	0.23408	0.58129
	G->Q (RF)	-	0.09023	0.22630	0.51783

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX1H7R	D->QN (FR)	G	0.11722	0.27096	0.66472
	G->QN (RR)	-	0.12407	0.26442	0.61444

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX1H7R	D->QN (RF)	G	0.08123	0.20295	0.49473
	G->QN (RF)	-	0.11619	0.23110	0.50305

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX1H7R	hold	G (F)	-0.08167	-0.00321	0.07060
	setup	G (F)	-0.05241	0.02086	0.10754

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX1H7R	hold	G (F)	-0.16407	-0.06902	-0.01654
	setup	G (F)	0.05300	0.10363	0.21295

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHX1H7R	0.9851	-

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX1H7R	D	G	0.00098	0.00104	0.00116
	D	G	0.00000	0.00002	0.00003
	D	G	-0.00003	-0.00002	-0.00000
	D	G	0.00125	0.00131	0.00142
	G	-	0.00153	0.00161	0.00188
	G	-	0.00000	0.00002	0.00004
	G	-	-0.00003	-0.00002	-0.00000
	G	-	0.00191	0.00201	0.00227

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX1H7R	D	G	0.00118	0.00123	0.00138
	D	G	-0.00002	-0.00002	0.00000
	D	G	0.00000	0.00002	0.00004
	D	G	0.00091	0.00097	0.00112
	G	-	0.00151	0.00160	0.00186
	G	-	-0.00002	-0.00002	0.00000
	G	-	0.00001	0.00002	0.00004
	G	-	0.00180	0.00188	0.00215

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX1H7R	D	G	0.00119	0.00123	0.00138
	D	G	-0.00002	-0.00002	-0.00001
	D	G	0.00001	0.00002	0.00002
	D	G	0.00092	0.00097	0.00112
	G	-	0.00150	0.00160	0.00186
	G	-	-0.00002	-0.00002	0.00000
	G	-	0.00001	0.00002	0.00004
	G	-	0.00177	0.00188	0.00215

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX1H7R	D	G	0.00099	0.00104	0.00116
	D	G	0.00001	0.00002	0.00003
	D	G	-0.00002	-0.00002	-0.00001
	D	G	0.00126	0.00130	0.00142
	G	-	0.00152	0.00161	0.00188
	G	-	0.00000	0.00002	0.00003
	G	-	-0.00003	-0.00002	-0.00001
	G	-	0.00192	0.00201	0.00228

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX1H7R	-0.00015	-0.00015	-0.00014
	-0.00001	-0.00001	-0.00001
	0.00000	0.00001	0.00001
	0.00023	0.00023	0.00024

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX1H7R	0.00015	0.00015	0.00015
	0.00001	0.00001	0.00001
	-0.00001	-0.00001	-0.00000
	-0.00023	-0.00022	-0.00022

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX1H7R	0.00096	0.00109	0.00155
	-0.00001	-0.00000	0.00000
	-0.00000	0.00000	0.00001
	0.00165	0.00178	0.00225

Passive power(pJ) for G falling :

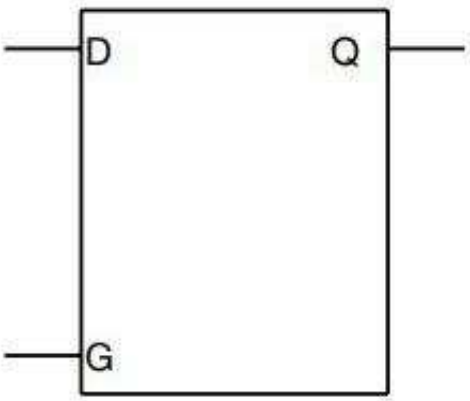
Cell Name	Power(pJ)		
	min	avg	max
LATHX1H7R	0.00166	0.00180	0.00231
	0.00000	0.00000	0.00001
	-0.00000	-0.00000	0.00000
	0.00098	0.00112	0.00163

LATHX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch
Q = G ? D : pre_Q
QN = !Q



Truth Table

INPUT		OUTPUT	
D	G	Q	QN
x	0	IQ	IQN
0	1	0	1
1	1	1	0

Footprint

Cell Name	Area
LATHX2H7R	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	G	Q	QN
LATHX2H7R	0.00070	0.00094	0.08099	0.08133

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHX2H7R	0.00000	0.78550	0.88809

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX2H7R	D->Q (RR)	G	0.05137	0.20537	0.57688
	G->Q (RR)	-	0.08538	0.23261	0.57643

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX2H7R	D->Q (FF)	G	0.06200	0.20296	0.53398
	G->Q (RF)	-	0.07177	0.20230	0.49170

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX2H7R	D->QN (FR)	G	0.09308	0.24466	0.62706
	G->QN (RR)	-	0.10312	0.24514	0.59666

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX2H7R	D->QN (RF)	G	0.07885	0.20114	0.49480
	G->QN (RF)	-	0.11308	0.22920	0.50369

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX2H7R	hold	G (F)	-0.07697	0.00154	0.07594
	setup	G (F)	-0.05721	0.01635	0.10554

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX2H7R	hold	G (F)	-0.12944	-0.04879	0.00183
	setup	G (F)	0.03590	0.08020	0.17179

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHX2H7R	0.9851	-

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX2H7R	D	G	0.00109	0.00117	0.00133
	D	G	0.00001	0.00004	0.00006
	D	G	-0.00004	-0.00003	-0.00001
	D	G	0.00142	0.00149	0.00167
	G	-	0.00164	0.00175	0.00203
	G	-	0.00002	0.00004	0.00006
	G	-	-0.00003	-0.00003	-0.00002
	G	-	0.00208	0.00219	0.00246

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX2H7R	D	G	0.00136	0.00143	0.00158
	D	G	-0.00004	-0.00003	-0.00001
	D	G	0.00001	0.00003	0.00005
	D	G	0.00102	0.00110	0.00125
	G	-	0.00164	0.00175	0.00202
	G	-	-0.00003	-0.00003	-0.00002
	G	-	0.00002	0.00003	0.00005
	G	-	0.00190	0.00202	0.00230

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX2H7R	D	G	0.00136	0.00143	0.00158
	D	G	-0.00004	-0.00003	-0.00003
	D	G	0.00000	0.00003	0.00003
	D	G	0.00104	0.00110	0.00125
	G	-	0.00164	0.00175	0.00203
	G	-	-0.00004	-0.00003	-0.00002
	G	-	0.00003	0.00003	0.00006
	G	-	0.00191	0.00202	0.00232

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX2H7R	D	G	0.00110	0.00117	0.00130
	D	G	0.00003	0.00003	0.00004
	D	G	-0.00003	-0.00003	-0.00000
	D	G	0.00143	0.00149	0.00163
	G	-	0.00165	0.00175	0.00202
	G	-	0.00003	0.00004	0.00006
	G	-	-0.00003	-0.00003	-0.00001
	G	-	0.00208	0.00219	0.00246

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX2H7R	-0.00019	-0.00018	-0.00017
	-0.00001	-0.00001	-0.00001
	0.00001	0.00001	0.00001
	0.00023	0.00023	0.00024

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX2H7R	0.00019	0.00019	0.00020
	0.00001	0.00001	0.00001
	-0.00001	-0.00001	-0.00001
	-0.00023	-0.00022	-0.00022

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX2H7R	0.00096	0.00109	0.00155
	0.00001	0.00001	0.00001
	0.00000	0.00000	0.00001
	0.00168	0.00181	0.00227

Passive power(pJ) for G falling :

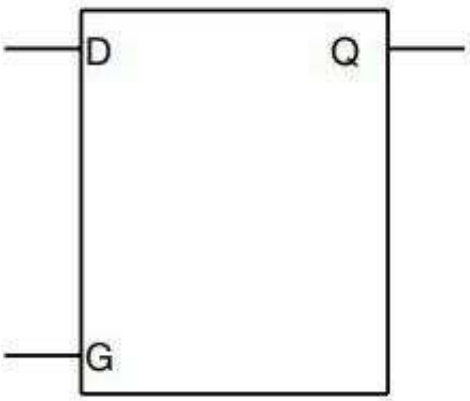
Cell Name	Power(pJ)		
	min	avg	max
LATHX2H7R	0.00167	0.00181	0.00231
	-0.00001	-0.00000	0.00001
	-0.00001	-0.00000	0.00000
	0.00098	0.00113	0.00162

LATHX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch
Q = G ? D : pre_Q
QN = !Q



Truth Table

INPUT		OUTPUT	
D	G	Q	QN
x	0	IQ	IQN
0	1	0	1
1	1	1	0

Footprint

Cell Name	Area
LATHX3H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	G	Q	QN
LATHX3H7R	0.00077	0.00093	0.12603	0.12646

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHX3H7R	0.00000	0.99573	1.11017

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX3H7R	D->Q (RR)	G	0.04931	0.20451	0.57772
	G->Q (RR)	-	0.08077	0.22992	0.57666

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX3H7R	D->Q (FF)	G	0.06037	0.20286	0.53590
	G->Q (RF)	-	0.07361	0.20694	0.50139

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX3H7R	D->QN (FR)	G	0.09613	0.24825	0.63195
	G->QN (RR)	-	0.10977	0.25320	0.60772

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX3H7R	D->QN (RF)	G	0.08160	0.20571	0.50293
	G->QN (RF)	-	0.11322	0.23139	0.50878

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX3H7R	hold	G (F)	-0.07818	0.00203	0.07956
	setup	G (F)	-0.06559	0.01888	0.11630

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX3H7R	hold	G (F)	-0.12801	-0.04797	0.00163
	setup	G (F)	0.03481	0.08147	0.17457

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHX3H7R	0.9851	-

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX3H7R	D	G	0.00130	0.00139	0.00159
	D	G	0.00002	0.00005	0.00007
	D	G	-0.00004	-0.00003	-0.00000
	D	G	0.00166	0.00175	0.00196
	G	-	0.00190	0.00202	0.00231
	G	-	0.00002	0.00005	0.00007
	G	-	-0.00004	-0.00003	0.00001
	G	-	0.00233	0.00245	0.00275

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX3H7R	D	G	0.00168	0.00176	0.00199
	D	G	-0.00006	-0.00005	-0.00002
	D	G	0.00000	0.00003	0.00004
	D	G	0.00132	0.00140	0.00162
	G	-	0.00199	0.00210	0.00238
	G	-	-0.00004	-0.00003	-0.00001
	G	-	0.00003	0.00004	0.00006
	G	-	0.00223	0.00234	0.00263

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX3H7R	D	G	0.00169	0.00176	0.00199
	D	G	-0.00005	-0.00004	-0.00003
	D	G	0.00001	0.00003	0.00004
	D	G	0.00132	0.00140	0.00162
	G	-	0.00196	0.00210	0.00240
	G	-	-0.00004	-0.00003	-0.00001
	G	-	0.00004	0.00004	0.00004
	G	-	0.00223	0.00234	0.00266

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX3H7R	D	G	0.00131	0.00139	0.00159
	D	G	0.00003	0.00004	0.00005
	D	G	-0.00004	-0.00003	-0.00001
	D	G	0.00167	0.00175	0.00195
	G	-	0.00189	0.00202	0.00230
	G	-	0.00003	0.00005	0.00006
	G	-	-0.00004	-0.00003	-0.00002
	G	-	0.00233	0.00245	0.00274

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX3H7R	-0.00020	-0.00019	-0.00018
	-0.00002	-0.00002	-0.00001
	0.00001	0.00001	0.00001
	0.00025	0.00026	0.00027

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX3H7R	0.00020	0.00020	0.00020
	0.00001	0.00002	0.00002
	-0.00001	-0.00001	-0.00001
	-0.00025	-0.00025	-0.00023

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX3H7R	0.00107	0.00120	0.00167
	0.00000	0.00000	0.00001
	0.00001	0.00002	0.00002
	0.00170	0.00184	0.00231

Passive power(pJ) for G falling :

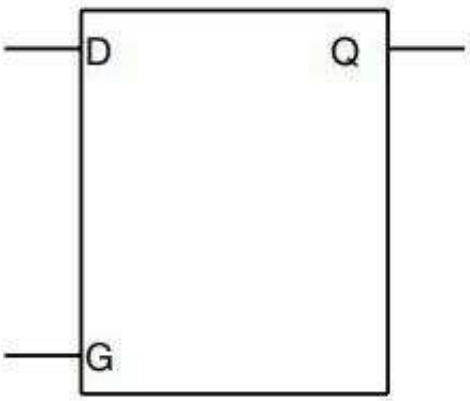
Cell Name	Power(pJ)		
	min	avg	max
LATHX3H7R	0.00175	0.00189	0.00240
	-0.00001	-0.00000	0.00000
	-0.00001	-0.00001	-0.00000
	0.00106	0.00120	0.00171

LATHX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

High Enable Latch
Q = G ? D : pre_Q
QN = !Q



Truth Table

INPUT		OUTPUT	
D	G	Q	QN
x	0	IQ	IQN
0	1	0	1
1	1	1	0

Footprint

Cell Name	Area
LATHX4H7R	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	G	Q	QN
LATHX4H7R	0.00077	0.00093	0.17068	0.17088

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATHX4H7R	0.00000	1.13864	1.25320

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX4H7R	D->Q (RR)	G	0.05467	0.21375	0.59293
	G->Q (RR)	-	0.08662	0.23724	0.58471

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX4H7R	D->Q (FF)	G	0.06833	0.21977	0.57196
	G->Q (RF)	-	0.08034	0.22045	0.52788

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX4H7R	D->QN (FR)	G	0.11252	0.26515	0.65335
	G->QN (RR)	-	0.12491	0.26643	0.61929

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATHX4H7R	D->QN (RF)	G	0.09556	0.22602	0.54077
	G->QN (RF)	-	0.12768	0.24943	0.53791

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX4H7R	hold	G (F)	-0.08854	-0.00380	0.07745
	setup	G (F)	-0.05911	0.03137	0.13724

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATHX4H7R	hold	G (F)	-0.14325	-0.05679	-0.00491
	setup	G (F)	0.04903	0.09640	0.20199

Min Pulse Width (ns) for G:

Cell Name	High	Low
LATHX4H7R	0.9851	-

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX4H7R	D	G	0.00169	0.00180	0.00207
	D	G	0.00003	0.00005	0.00008
	D	G	-0.00004	-0.00004	-0.00001
	D	G	0.00208	0.00216	0.00243
	G	-	0.00228	0.00243	0.00274
	G	-	0.00002	0.00005	0.00007
	G	-	-0.00004	-0.00003	0.00000
	G	-	0.00273	0.00286	0.00318

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX4H7R	D	G	0.00205	0.00214	0.00244
	D	G	-0.00006	-0.00005	-0.00003
	D	G	0.00001	0.00004	0.00007
	D	G	0.00165	0.00177	0.00208
	G	-	0.00234	0.00246	0.00277
	G	-	-0.00005	-0.00003	-0.00002
	G	-	0.00000	0.00004	0.00007
	G	-	0.00255	0.00271	0.00303

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX4H7R	D	G	0.00205	0.00214	0.00244
	D	G	-0.00005	-0.00004	-0.00001
	D	G	0.00002	0.00004	0.00006
	D	G	0.00169	0.00177	0.00208
	G	-	0.00231	0.00247	0.00278
	G	-	-0.00005	-0.00003	0.00000
	G	-	0.00000	0.00004	0.00007
	G	-	0.00259	0.00271	0.00304

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATHX4H7R	D	G	0.00170	0.00180	0.00207
	D	G	0.00004	0.00005	0.00006
	D	G	-0.00004	-0.00004	-0.00002
	D	G	0.00207	0.00216	0.00243
	G	-	0.00231	0.00243	0.00274
	G	-	0.00003	0.00005	0.00006
	G	-	-0.00003	-0.00003	-0.00000
	G	-	0.00273	0.00285	0.00319

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX4H7R	-0.00020	-0.00019	-0.00017
	-0.00002	-0.00002	-0.00001
	0.00001	0.00001	0.00001
	0.00026	0.00026	0.00027

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX4H7R	0.00019	0.00020	0.00020
	0.00001	0.00002	0.00002
	-0.00001	-0.00001	-0.00001
	-0.00025	-0.00025	-0.00024

Passive power(pJ) for G rising :

Cell Name	Power(pJ)		
	min	avg	max
LATHX4H7R	0.00102	0.00115	0.00162
	0.00001	0.00001	0.00002
	-0.00000	0.00001	0.00001
	0.00171	0.00184	0.00231

Passive power(pJ) for G falling :

Cell Name	Power(pJ)		
	min	avg	max
LATHX4H7R	0.00172	0.00186	0.00237
	-0.00001	-0.00001	-0.00001
	-0.00001	-0.00001	0.00000
	0.00104	0.00118	0.00169

LATLRX0P5H7R

Cell Description

Latch

Q = !RN ? 0 : !EN ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	RN	Q	QN
0	0	x	0	1
x	1	0	0	1
x	1	1	IQ	IQN
1	x	0	0	1
1	0	1	1	0

Footprint

Cell Name	Area
LATLRX0P5H7R	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	RN	Q	QN
LATLRX0P5H7R	0.00071	0.00091	0.00092	0.05948	0.05987

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLRX0P5H7R	0.00000	0.75147	1.13365

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX0P5H7R	D->Q (RR)	-	0.06905	0.23018	0.61335
	GN->Q (FR)	RN	0.08339	0.24471	0.62249
	RN->Q (RR)	-	0.07121	0.23024	0.60851

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX0P5H7R	D->Q (FF)	-	0.05835	0.20007	0.52996
	GN->Q (FF)	RN	0.08726	0.22275	0.52377
	RN->Q (FF)	-	0.05504	0.20057	0.54446

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX0P5H7R	D->QN (FR)	-	0.08861	0.24397	0.62640
	GN->QN (FR)	RN	0.11749	0.26807	0.63606
	RN->QN (FR)	-	0.08333	0.24498	0.64011

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX0P5H7R	D->QN (RF)	-	0.09827	0.22477	0.52481
	GN->QN (FF)	RN	0.11314	0.24039	0.54326
	RN->QN (RF)	-	0.10046	0.22490	0.52171

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX0P5H7R	hold	GN (R)	-0.10664	-0.05337	-0.02129
	setup	GN (R)	0.04390	0.08576	0.15079

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX0P5H7R	hold	GN (R)	-0.12451	-0.02646	0.04372
	setup	GN (R)	0.01742	0.05852	0.15520

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLRX0P5H7R	-	0.9851

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX0P5H7R	recovery	GN (R)	0.04832	0.08779	0.15079
	removal	GN (R)	-0.11247	-0.05700	-0.02186

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATLRX0P5H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX0P5H7R	D	-	0.00110	0.00117	0.00140
	D	-	0.00004	0.00005	0.00006
	D	-	-0.00004	-0.00003	-0.00003
	D	-	0.00144	0.00152	0.00175
	GN	RN	0.00189	0.00199	0.00226
	GN	RN	0.00001	0.00002	0.00003
	GN	RN	-0.00002	-0.00001	-0.00000
	GN	RN	0.00163	0.00172	0.00201
	RN	-	0.00111	0.00116	0.00128
	RN	-	0.00005	0.00005	0.00006
	RN	-	-0.00006	-0.00005	-0.00004
	RN	-	0.00162	0.00167	0.00179

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX0P5H7R	D	-	0.00138	0.00146	0.00172
	D	-	-0.00006	-0.00005	-0.00004
	D	-	0.00003	0.00003	0.00004
	D	-	0.00102	0.00111	0.00137
	GN	RN	0.00203	0.00214	0.00245
	GN	RN	-0.00003	-0.00002	-0.00001
	GN	RN	0.00000	0.00001	0.00002
	GN	RN	0.00162	0.00173	0.00204
	RN	-	0.00145	0.00152	0.00171
	RN	-	-0.00006	-0.00004	-0.00003
	RN	-	0.00004	0.00005	0.00006
	RN	-	0.00095	0.00102	0.00121

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX0P5H7R	D	-	0.00138	0.00146	0.00172
	D	-	-0.00006	-0.00005	-0.00005
	D	-	0.00003	0.00003	0.00003
	D	-	0.00103	0.00111	0.00137
	GN	RN	0.00204	0.00214	0.00244
	GN	RN	-0.00003	-0.00002	-0.00002
	GN	RN	0.00000	0.00001	0.00002
	GN	RN	0.00162	0.00173	0.00203
	RN	-	0.00146	0.00152	0.00171
	RN	-	-0.00005	-0.00004	-0.00002
	RN	-	0.00001	0.00003	0.00006
	RN	-	0.00096	0.00102	0.00121

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX0P5H7R	D	-	0.00109	0.00117	0.00141
	D	-	0.00005	0.00005	0.00006
	D	-	-0.00003	-0.00003	-0.00003
	D	-	0.00144	0.00152	0.00175
	GN	RN	0.00190	0.00199	0.00226
	GN	RN	0.00002	0.00002	0.00003
	GN	RN	-0.00002	-0.00001	-0.00000
	GN	RN	0.00163	0.00172	0.00199
	RN	-	0.00111	0.00116	0.00127
	RN	-	0.00005	0.00005	0.00006
	RN	-	-0.00005	-0.00003	-0.00001
	RN	-	0.00162	0.00167	0.00178

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7R	-0.00002	0.00013	0.00063
	0.00006	0.00006	0.00006
	-0.00005	-0.00005	-0.00005
	0.00056	0.00070	0.00121

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7R	0.00057	0.00074	0.00129
	-0.00006	-0.00006	-0.00006
	0.00005	0.00005	0.00005
	-0.00000	0.00016	0.00071

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7R	0.00105	0.00119	0.00165
	0.00000	0.00000	0.00001
	0.00001	0.00001	0.00002
	0.00173	0.00185	0.00232

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7R	0.00167	0.00181	0.00230
	-0.00001	-0.00000	0.00000
	-0.00001	0.00000	0.00001
	0.00098	0.00112	0.00161

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7R	-0.00017	-0.00017	-0.00017
	-0.00000	-0.00000	0.00000
	0.00001	0.00001	0.00002
	0.00037	0.00038	0.00038

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX0P5H7R	0.00017	0.00017	0.00018
	0.00000	0.00000	0.00001
	-0.00002	-0.00001	-0.00001
	-0.00038	-0.00037	-0.00035

LATLRX1H7R

Cell Description

Latch

Q = !RN ? 0 : !EN ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	RN	Q	QN
0	0	x	0	1
x	1	0	0	1
x	1	1	IQ	IQN
1	x	0	0	1
1	0	1	1	0

Footprint

Cell Name	Area
LATLRX1H7R	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	RN	Q	QN
LATLRX1H7R	0.00071	0.00091	0.00092	0.07035	0.07065

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLRX1H7R	0.00000	0.79321	1.17903

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX1H7R	D->Q (RR)	-	0.06836	0.23106	0.61659
	GN->Q (FR)	RN	0.08262	0.24501	0.62346
	RN->Q (RR)	-	0.07058	0.23103	0.61105

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX1H7R	D->Q (FF)	-	0.05658	0.19957	0.53151
	GN->Q (FF)	RN	0.08569	0.22260	0.52644
	RN->Q (FF)	-	0.05460	0.20215	0.54993

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX1H7R	D->QN (FR)	-	0.08777	0.24294	0.62467
	GN->QN (FR)	RN	0.11681	0.26726	0.63475
	RN->QN (FR)	-	0.08386	0.24582	0.64152

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX1H7R	D->QN (RF)	-	0.09890	0.22684	0.53028
	GN->QN (FF)	RN	0.11369	0.24185	0.54684
	RN->QN (RF)	-	0.10114	0.22687	0.52663

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX1H7R	hold	GN (R)	-0.10600	-0.05399	-0.02205
	setup	GN (R)	0.04488	0.08724	0.15511

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX1H7R	hold	GN (R)	-0.12119	-0.02567	0.04372
	setup	GN (R)	0.01710	0.05840	0.15372

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLRX1H7R	-	0.9851

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX1H7R	recovery	GN (R)	0.04832	0.08978	0.15446
	removal	GN (R)	-0.11247	-0.05717	-0.02308

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATLRX1H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX1H7R	D	-	0.00112	0.00120	0.00146
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00004	-0.00003	-0.00003
	D	-	0.00148	0.00155	0.00181
	GN	RN	0.00193	0.00202	0.00229
	GN	RN	0.00001	0.00002	0.00003
	GN	RN	-0.00002	-0.00001	-0.00001
	GN	RN	0.00167	0.00176	0.00203
	RN	-	0.00114	0.00119	0.00132
	RN	-	0.00004	0.00006	0.00007
	RN	-	-0.00007	-0.00005	-0.00003
	RN	-	0.00166	0.00170	0.00183

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX1H7R	D	-	0.00143	0.00151	0.00178
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00003	0.00003	0.00004
	D	-	0.00107	0.00116	0.00143
	GN	RN	0.00208	0.00218	0.00250
	GN	RN	-0.00003	-0.00002	-0.00001
	GN	RN	0.00001	0.00001	0.00002
	GN	RN	0.00167	0.00177	0.00209
	RN	-	0.00150	0.00157	0.00177
	RN	-	-0.00006	-0.00004	-0.00002
	RN	-	0.00003	0.00005	0.00007
	RN	-	0.00098	0.00107	0.00127

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX1H7R	D	-	0.00143	0.00151	0.00179
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00002	0.00003	0.00005
	D	-	0.00107	0.00116	0.00143
	GN	RN	0.00209	0.00218	0.00249
	GN	RN	-0.00003	-0.00002	-0.00002
	GN	RN	0.00001	0.00001	0.00002
	GN	RN	0.00166	0.00177	0.00208
	RN	-	0.00150	0.00157	0.00177
	RN	-	-0.00004	-0.00004	-0.00003
	RN	-	0.00003	0.00003	0.00006
	RN	-	0.00100	0.00107	0.00127

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX1H7R	D	-	0.00112	0.00120	0.00146
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00005	-0.00003	-0.00002
	D	-	0.00147	0.00155	0.00181
	GN	RN	0.00193	0.00202	0.00229
	GN	RN	0.00002	0.00002	0.00003
	GN	RN	-0.00002	-0.00001	-0.00001
	GN	RN	0.00166	0.00176	0.00203
	RN	-	0.00115	0.00119	0.00132
	RN	-	0.00005	0.00006	0.00007
	RN	-	-0.00005	-0.00003	-0.00003
	RN	-	0.00166	0.00170	0.00183

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7R	-0.00002	0.00013	0.00064
	0.00006	0.00006	0.00007
	-0.00005	-0.00005	-0.00004
	0.00056	0.00071	0.00122

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7R	0.00058	0.00075	0.00131
	-0.00007	-0.00006	-0.00006
	0.00004	0.00005	0.00005
	-0.00000	0.00016	0.00073

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7R	0.00107	0.00119	0.00165
	0.00000	0.00000	0.00001
	0.00001	0.00001	0.00002
	0.00173	0.00186	0.00232

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7R	0.00167	0.00181	0.00230
	-0.00000	-0.00000	0.00000
	-0.00001	0.00000	0.00001
	0.00098	0.00112	0.00162

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7R	-0.00017	-0.00017	-0.00017
	-0.00000	-0.00000	-0.00000
	0.00000	0.00001	0.00002
	0.00037	0.00038	0.00038

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX1H7R	0.00017	0.00017	0.00018
	0.00000	0.00001	0.00001
	-0.00002	-0.00001	-0.00000
	-0.00038	-0.00037	-0.00036

LATLRX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch

Q = !RN ? 0 : !EN ? D : pre_Q

QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	RN	Q	QN
0	0	x	0	1
x	1	0	0	1
x	1	1	IQ	IQN
1	x	0	0	1
1	0	1	1	0

Footprint

Cell Name	Area
LATLRX2H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	RN	Q	QN
LATLRX2H7R	0.00071	0.00091	0.00092	0.08920	0.08952

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLRX2H7R	0.00000	0.87066	1.22254

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX2H7R	D->Q (RR)	-	0.06844	0.23404	0.62407
	GN->Q (FR)	RN	0.08282	0.24768	0.62910
	RN->Q (RR)	-	0.07066	0.23396	0.61807

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX2H7R	D->Q (FF)	-	0.05821	0.21289	0.57189
	GN->Q (FF)	RN	0.08706	0.23503	0.56454
	RN->Q (FF)	-	0.05609	0.21499	0.58986

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX2H7R	D->QN (FR)	-	0.09664	0.25306	0.63881
	GN->QN (FR)	RN	0.12539	0.27618	0.64533
	RN->QN (FR)	-	0.09194	0.25554	0.65618

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLRX2H7R	D->QN (RF)	-	0.10886	0.23722	0.54196
	GN->QN (FF)	RN	0.12379	0.25140	0.55473
	RN->QN (RF)	-	0.11109	0.23703	0.53726

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX2H7R	hold	GN (R)	-0.10602	-0.05416	-0.01946
	setup	GN (R)	0.05016	0.09397	0.16694

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX2H7R	hold	GN (R)	-0.12671	-0.02794	0.04285
	setup	GN (R)	0.01824	0.06113	0.16103

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLRX2H7R	-	0.9851

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLRX2H7R	recovery	GN (R)	0.05371	0.09556	0.16694
	removal	GN (R)	-0.11261	-0.05790	-0.02357

Min Pulse Width (ns) for RN:

Cell Name	High	Low
LATLRX2H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX2H7R	D	-	0.00133	0.00142	0.00171
	D	-	0.00004	0.00006	0.00007
	D	-	-0.00004	-0.00003	-0.00003
	D	-	0.00169	0.00177	0.00206
	GN	RN	0.00214	0.00225	0.00253
	GN	RN	0.00001	0.00002	0.00003
	GN	RN	-0.00002	-0.00001	0.00000
	GN	RN	0.00188	0.00198	0.00227
	RN	-	0.00136	0.00141	0.00156
	RN	-	0.00005	0.00006	0.00007
	RN	-	-0.00004	-0.00003	-0.00002
	RN	-	0.00187	0.00193	0.00207

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX2H7R	D	-	0.00162	0.00172	0.00201
	D	-	-0.00006	-0.00005	-0.00004
	D	-	0.00003	0.00003	0.00004
	D	-	0.00128	0.00137	0.00166
	GN	RN	0.00228	0.00239	0.00272
	GN	RN	-0.00003	-0.00002	-0.00001
	GN	RN	0.00000	0.00001	0.00002
	GN	RN	0.00186	0.00198	0.00231
	RN	-	0.00170	0.00178	0.00200
	RN	-	-0.00006	-0.00004	-0.00002
	RN	-	0.00002	0.00003	0.00005
	RN	-	0.00120	0.00128	0.00150

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX2H7R	D	-	0.00163	0.00172	0.00201
	D	-	-0.00006	-0.00006	-0.00005
	D	-	0.00003	0.00003	0.00005
	D	-	0.00127	0.00137	0.00166
	GN	RN	0.00228	0.00239	0.00271
	GN	RN	-0.00002	-0.00002	-0.00002
	GN	RN	0.00001	0.00001	0.00001
	GN	RN	0.00186	0.00198	0.00230
	RN	-	0.00170	0.00178	0.00201
	RN	-	-0.00004	-0.00004	-0.00004
	RN	-	0.00003	0.00005	0.00007
	RN	-	0.00120	0.00128	0.00150

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLRX2H7R	D	-	0.00134	0.00142	0.00170
	D	-	0.00005	0.00006	0.00006
	D	-	-0.00004	-0.00003	-0.00003
	D	-	0.00168	0.00177	0.00205
	GN	RN	0.00215	0.00225	0.00252
	GN	RN	0.00002	0.00002	0.00002
	GN	RN	-0.00001	-0.00001	-0.00001
	GN	RN	0.00189	0.00198	0.00226
	RN	-	0.00136	0.00141	0.00156
	RN	-	0.00005	0.00006	0.00006
	RN	-	-0.00006	-0.00005	-0.00003
	RN	-	0.00187	0.00193	0.00207

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7R	-0.00002	0.00013	0.00064
	0.00006	0.00006	0.00007
	-0.00005	-0.00005	-0.00004
	0.00056	0.00071	0.00122

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7R	0.00058	0.00075	0.00131
	-0.00007	-0.00006	-0.00006
	0.00004	0.00005	0.00005
	-0.00000	0.00016	0.00073

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7R	0.00106	0.00119	0.00165
	-0.00000	0.00000	0.00001
	-0.00000	0.00001	0.00001
	0.00173	0.00186	0.00232

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7R	0.00167	0.00181	0.00231
	-0.00000	-0.00000	0.00000
	-0.00000	0.00000	0.00001
	0.00099	0.00112	0.00162

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7R	-0.00017	-0.00017	-0.00017
	-0.00000	-0.00000	0.00000
	0.00001	0.00002	0.00002
	0.00037	0.00038	0.00038

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLRX2H7R	0.00017	0.00018	0.00019
	0.00000	0.00000	0.00000
	-0.00002	-0.00002	-0.00001
	-0.00038	-0.00036	-0.00034

LATLSRX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch with Clear and Set
Q = !SN ?1 : !RN ?0 : !EN ?D : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
D	GN	RN	SN	Q	QN
x	x	x	0	1	0
0	0	x	1	0	1
x	1	0	1	0	1
x	1	1	1	IQ	IQN
1	x	0	1	0	1
1	0	1	1	1	0

Footprint

Cell Name	Area
LATLSRX0P5H7R	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	GN	RN	SN	Q	QN
LATLSRX0P5H7R	0.00149	0.00093	0.00076	0.00075	0.05961	0.05952

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSRX0P5H7R	0.00000	0.91066	1.41563

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX0P5H7R	D->Q (RR)	-	0.07794	0.23871	0.61698
	GN->Q (FR)	-	0.09263	0.25922	0.64569
	RN->Q (RR)	(D * !GN)	0.07910	0.24496	0.63480
	SN->Q (FR)	(D * GN * RN)	0.06320	0.21181	0.57235
	SN->Q (FR)	(D * GN * !RN)	0.06520	0.21627	0.57993
	SN->Q (FR)	(D * !GN * !RN)	0.06888	0.22305	0.58762
	SN->Q (FR)	(!D * GN * RN)	0.06297	0.21189	0.57286
	SN->Q (FR)	(!D * GN * !RN)	0.06704	0.21764	0.58030
	SN->Q (FR)	(!D * !GN * RN)	0.06732	0.21944	0.58249
	SN->Q (FR)	(!D * !GN * !RN)	0.06945	0.22098	0.58398

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX0P5H7R	D->Q (FF)	-	0.09403	0.25154	0.60832
	GN->Q (FF)	-	0.10410	0.25487	0.57250
	RN->Q (FF)	(D * GN)	0.09848	0.26208	0.63360
	RN->Q (FF)	(D * !GN)	0.10518	0.27807	0.67051
	RN->Q (FF)	(!D * GN)	0.08851	0.25026	0.61609
	SN->Q (RF)	(D * GN * !RN)	0.11983	0.24879	0.51814
	SN->Q (RF)	(D * !GN * !RN)	0.12651	0.26340	0.54120
	SN->Q (RF)	(!D * GN * !RN)	0.11993	0.24910	0.52030
	SN->Q (RF)	(!D * !GN * RN)	0.11111	0.24341	0.51845
	SN->Q (RF)	(!D * !GN * !RN)	0.09333	0.21813	0.48874

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX0P5H7R	D->QN (FR)	-	0.13857	0.29708	0.69551
	GN->QN (FR)	-	0.14835	0.30120	0.67447
	RN->QN (FR)	(D * GN)	0.14364	0.31118	0.73357
	RN->QN (FR)	(D * !GN)	0.15238	0.32144	0.74827
	RN->QN (FR)	(!D * GN)	0.13297	0.29899	0.71524
	SN->QN (RR)	(D * GN * !RN)	0.16506	0.29837	0.62680
	SN->QN (RR)	(D * !GN * !RN)	0.17372	0.30780	0.63585
	SN->QN (RR)	(!D * GN * !RN)	0.16447	0.29832	0.62847
	SN->QN (RR)	(!D * !GN * RN)	0.15566	0.28977	0.61947
	SN->QN (RR)	(!D * !GN * !RN)	0.13226	0.26726	0.59894

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX0P5H7R	D->QN (RF)	-	0.11575	0.23930	0.53105
	GN->QN (FF)	-	0.13074	0.26047	0.56809
	RN->QN (RF)	(D * !GN)	0.11693	0.24559	0.54983
	SN->QN (FF)	(D * GN * RN)	0.09648	0.21618	0.50363
	SN->QN (FF)	(D * GN * !RN)	0.09870	0.21886	0.50690
	SN->QN (FF)	(D * !GN * !RN)	0.10574	0.22652	0.51511
	SN->QN (FF)	(!D * GN * RN)	0.09641	0.21632	0.50413
	SN->QN (FF)	(!D * GN * !RN)	0.10086	0.22094	0.50929
	SN->QN (FF)	(!D * !GN * RN)	0.10269	0.22286	0.51098
	SN->QN (FF)	(!D * !GN * !RN)	0.10380	0.22375	0.51191

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX0P5H7R	**D**	**-**	0.00136	0.00145	0.00170
	D	**-**	0.00005	0.00007	0.00007
	D	**-**	-0.00007	-0.00006	-0.00005
	D	**-**	0.00202	0.00210	0.00235
	GN	**-**	0.00232	0.00241	0.00267
	GN	**-**	0.00002	0.00003	0.00003
	GN	**-**	-0.00004	-0.00003	-0.00002
	GN	**-**	0.00202	0.00212	0.00239
	RN	**(D * !GN)**	0.00145	0.00150	0.00159
	RN	**(D * !GN)**	0.00006	0.00007	0.00008
	RN	**(D * !GN)**	-0.00011	-0.00010	-0.00009
	RN	**(D * !GN)**	0.00209	0.00213	0.00223
	SN	**(D * GN * RN)**	0.00183	0.00195	0.00224
	SN	**(D * GN * RN)**	0.00002	0.00005	0.00007
	SN	**(D * GN * RN)**	-0.00005	-0.00003	-0.00002
	SN	**(D * GN * RN)**	0.00168	0.00179	0.00208
	SN	**(D * GN * !RN)**	0.00190	0.00202	0.00230
	SN	**(D * GN * !RN)**	0.00007	0.00009	0.00012
	SN	**(D * GN * !RN)**	-0.00008	-0.00007	-0.00005
	SN	**(D * GN * !RN)**	0.00198	0.00211	0.00240
	SN	**(D * !GN * !RN)**	0.00203	0.00216	0.00245
	SN	**(D * !GN * !RN)**	0.00009	0.00011	0.00013
	SN	**(D * !GN * !RN)**	-0.00010	-0.00009	-0.00007
	SN	**(D * !GN * !RN)**	0.00228	0.00239	0.00268
	SN	**(!D * GN * RN)**	0.00185	0.00197	0.00225
	SN	**(!D * GN * RN)**	0.00004	0.00006	0.00008
	SN	**(!D * GN * RN)**	-0.00004	-0.00004	-0.00001
	SN	**(!D * GN * RN)**	0.00175	0.00186	0.00217
	SN	**(!D * GN * !RN)**	0.00188	0.00201	0.00229
	SN	**(!D * GN * !RN)**	0.00009	0.00011	0.00014
	SN	**(!D * GN * !RN)**	-0.00008	-0.00006	-0.00003
	SN	**(!D * GN * !RN)**	0.00197	0.00210	0.00238
	SN	**(!D * !GN * RN)**	0.00200	0.00213	0.00242
	SN	**(!D * !GN * RN)**	0.00008	0.00011	0.00013
	SN	**(!D * !GN * RN)**	-0.00005	-0.00005	-0.00002
	SN	**(!D * !GN * RN)**	0.00212	0.00224	0.00253
	SN	**(!D * !GN * !RN)**	0.00199	0.00211	0.00240
	SN	**(!D * !GN * !RN)**	0.00010	0.00012	0.00014
	SN	**(!D * !GN * !RN)**	-0.00005	-0.00004	-0.00003
	SN	**(!D * !GN * !RN)**	0.00212	0.00223	0.00253

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX0P5H7R	**D**	**-**	0.00197	0.00206	0.00237
	D	**-**	-0.00007	-0.00007	-0.00005
	D	**-**	0.00005	0.00006	0.00009
	D	**-**	0.00132	0.00141	0.00171
	GN	**-**	0.00242	0.00253	0.00284
	GN	**-**	-0.00003	-0.00003	-0.00002
	GN	**-**	0.00002	0.00003	0.00004
	GN	**-**	0.00197	0.00208	0.00239
	RN	**(D * GN)**	0.00190	0.00196	0.00216
	RN	**(D * GN)**	-0.00007	-0.00006	-0.00004
	RN	**(D * GN)**	0.00006	0.00008	0.00010
	RN	**(D * GN)**	0.00142	0.00148	0.00168
	RN	**(D * !GN)**	0.00207	0.00213	0.00235
	RN	**(D * !GN)**	-0.00007	-0.00007	-0.00006
	RN	**(D * !GN)**	0.00010	0.00010	0.00012
	RN	**(D * !GN)**	0.00144	0.00151	0.00173
	RN	**(!D * GN)**	0.00173	0.00179	0.00199
	RN	**(!D * GN)**	-0.00006	-0.00005	-0.00004
	RN	**(!D * GN)**	0.00005	0.00006	0.00007
	RN	**(!D * GN)**	0.00135	0.00142	0.00162
	SN	**(D * GN * !RN)**	0.00217	0.00226	0.00253
	SN	**(D * GN * !RN)**	-0.00010	-0.00009	-0.00007
	SN	**(D * GN * !RN)**	0.00005	0.00007	0.00008
	SN	**(D * GN * !RN)**	0.00207	0.00217	0.00245
	SN	**(D * !GN * !RN)**	0.00231	0.00240	0.00267
	SN	**(D * !GN * !RN)**	-0.00013	-0.00011	-0.00009
	SN	**(D * !GN * !RN)**	0.00007	0.00009	0.00011
	SN	**(D * !GN * !RN)**	0.00208	0.00217	0.00245
	SN	**(!D * GN * !RN)**	0.00233	0.00243	0.00270
	SN	**(!D * GN * !RN)**	-0.00013	-0.00011	-0.00009
	SN	**(!D * GN * !RN)**	0.00006	0.00008	0.00009
	SN	**(!D * GN * !RN)**	0.00214	0.00224	0.00251
	SN	**(!D * !GN * RN)**	0.00209	0.00219	0.00246
	SN	**(!D * !GN * RN)**	-0.00012	-0.00011	-0.00008
	SN	**(!D * !GN * RN)**	0.00004	0.00005	0.00006
	SN	**(!D * !GN * RN)**	0.00197	0.00206	0.00233
	SN	**(!D * !GN * !RN)**	0.00211	0.00221	0.00248
	SN	**(!D * !GN * !RN)**	-0.00012	-0.00012	-0.00010
	SN	**(!D * !GN * !RN)**	0.00003	0.00004	0.00005
	SN	**(!D * !GN * !RN)**	0.00197	0.00208	0.00234

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX0P5H7R	**D**	**-**	0.00197	0.00206	0.00237
	D	**-**	-0.00007	-0.00006	-0.00005
	D	**-**	0.00004	0.00006	0.00007
	D	**-**	0.00131	0.00141	0.00171
	GN	**-**	0.00242	0.00253	0.00284
	GN	**-**	-0.00003	-0.00003	-0.00003
	GN	**-**	0.00002	0.00003	0.00004
	GN	**-**	0.00197	0.00208	0.00238
	RN	**(D * GN)**	0.00190	0.00196	0.00216
	RN	**(D * GN)**	-0.00007	-0.00006	-0.00004
	RN	**(D * GN)**	0.00006	0.00008	0.00010
	RN	**(D * GN)**	0.00141	0.00148	0.00168
	RN	**(D * !GN)**	0.00208	0.00214	0.00235
	RN	**(D * !GN)**	-0.00007	-0.00007	-0.00006
	RN	**(D * !GN)**	0.00008	0.00010	0.00012
	RN	**(D * !GN)**	0.00143	0.00151	0.00173
	RN	**(!D * GN)**	0.00173	0.00179	0.00199
	RN	**(!D * GN)**	-0.00007	-0.00004	-0.00003
	RN	**(!D * GN)**	0.00004	0.00006	0.00008
	RN	**(!D * GN)**	0.00135	0.00142	0.00162
	SN	**(D * GN * !RN)**	0.00217	0.00226	0.00254
	SN	**(D * GN * !RN)**	-0.00009	-0.00008	0.00044
	SN	**(D * GN * !RN)**	0.00005	0.00007	0.00009
	SN	**(D * GN * !RN)**	0.00208	0.00218	0.00268
	SN	**(D * !GN * !RN)**	0.00231	0.00240	0.00267
	SN	**(D * !GN * !RN)**	-0.00011	-0.00011	-0.00009
	SN	**(D * !GN * !RN)**	0.00008	0.00009	0.00011
	SN	**(D * !GN * !RN)**	0.00207	0.00217	0.00243
	SN	**(!D * GN * !RN)**	0.00233	0.00243	0.00271
	SN	**(!D * GN * !RN)**	-0.00011	-0.00011	-0.00009
	SN	**(!D * GN * !RN)**	0.00006	0.00008	0.00008
	SN	**(!D * GN * !RN)**	0.00215	0.00224	0.00252
	SN	**(!D * !GN * RN)**	0.00210	0.00219	0.00246
	SN	**(!D * !GN * RN)**	-0.00011	-0.00011	-0.00011
	SN	**(!D * !GN * RN)**	0.00005	0.00005	0.00006
	SN	**(!D * !GN * RN)**	0.00196	0.00206	0.00234
	SN	**(!D * !GN * !RN)**	0.00211	0.00221	0.00248
	SN	**(!D * !GN * !RN)**	-0.00012	-0.00012	-0.00011
	SN	**(!D * !GN * !RN)**	0.00004	0.00004	0.00005
	SN	**(!D * !GN * !RN)**	0.00198	0.00208	0.00234

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX0P5H7R	**D**	**-**	0.00137	0.00145	0.00170
	D	**-**	0.00005	0.00006	0.00007
	D	**-**	-0.00006	-0.00006	-0.00004
	D	**-**	0.00201	0.00210	0.00235
	GN	**-**	0.00231	0.00241	0.00267
	GN	**-**	0.00003	0.00003	0.00003
	GN	**-**	-0.00004	-0.00003	-0.00002
	GN	**-**	0.00202	0.00212	0.00238
	RN	**(D * !GN)**	0.00145	0.00150	0.00158
	RN	**(D * !GN)**	0.00006	0.00007	0.00007
	RN	**(D * !GN)**	-0.00012	-0.00010	-0.00008
	RN	**(D * !GN)**	0.00208	0.00213	0.00221
	SN	**(D * GN * RN)**	0.00184	0.00195	0.00223
	SN	**(D * GN * RN)**	0.00002	0.00005	0.00006
	SN	**(D * GN * RN)**	-0.00005	-0.00003	-0.00002
	SN	**(D * GN * RN)**	0.00167	0.00179	0.00208
	SN	**(D * GN * !RN)**	0.00191	0.00202	0.00230
	SN	**(D * GN * !RN)**	0.00009	0.00009	0.00009
	SN	**(D * GN * !RN)**	-0.00008	-0.00007	-0.00005
	SN	**(D * GN * !RN)**	0.00200	0.00211	0.00239
	SN	**(D * !GN * !RN)**	0.00205	0.00216	0.00245
	SN	**(D * !GN * !RN)**	0.00009	0.00011	0.00011
	SN	**(D * !GN * !RN)**	-0.00010	-0.00009	-0.00008
	SN	**(D * !GN * !RN)**	0.00227	0.00238	0.00268
	SN	**(!D * GN * RN)**	0.00184	0.00197	0.00225
	SN	**(!D * GN * RN)**	0.00004	0.00006	0.00008
	SN	**(!D * GN * RN)**	-0.00005	-0.00004	-0.00003
	SN	**(!D * GN * RN)**	0.00175	0.00186	0.00217
	SN	**(!D * GN * !RN)**	0.00190	0.00201	0.00229
	SN	**(!D * GN * !RN)**	0.00009	0.00011	0.00011
	SN	**(!D * GN * !RN)**	-0.00006	-0.00006	-0.00006
	SN	**(!D * GN * !RN)**	0.00199	0.00209	0.00238
	SN	**(!D * !GN * RN)**	0.00202	0.00213	0.00241
	SN	**(!D * !GN * RN)**	0.00011	0.00011	0.00011
	SN	**(!D * !GN * RN)**	-0.00005	-0.00005	-0.00005
	SN	**(!D * !GN * RN)**	0.00213	0.00224	0.00252
	SN	**(!D * !GN * !RN)**	0.00201	0.00211	0.00239
	SN	**(!D * !GN * !RN)**	0.00011	0.00012	0.00013
	SN	**(!D * !GN * !RN)**	-0.00005	-0.00004	-0.00004
	SN	**(!D * !GN * !RN)**	0.00212	0.00223	0.00251

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX0P5H7R	(GN * RN * SN)	0.00008	0.00024	0.00081
	(GN * RN * SN)	0.00007	0.00008	0.00008
	(GN * RN * SN)	-0.00006	-0.00006	-0.00004
	(GN * RN * SN)	0.00124	0.00140	0.00198
	(GN * RN * !SN)	-0.00002	-0.00002	-0.00002
	(GN * RN * !SN)	-0.00004	-0.00004	-0.00003
	(GN * RN * !SN)	0.00001	0.00002	0.00002
	(GN * RN * !SN)	0.00060	0.00060	0.00060
	(GN * !RN * SN)	-0.00040	-0.00036	-0.00032
	(GN * !RN * SN)	-0.00000	-0.00000	0.00000
	(GN * !RN * SN)	0.00002	0.00003	0.00004
	(GN * !RN * SN)	0.00023	0.00024	0.00027
	(GN * !RN * !SN)	-0.00003	-0.00002	-0.00002
	(GN * !RN * !SN)	-0.00004	-0.00003	-0.00003
	(GN * !RN * !SN)	0.00001	0.00001	0.00002
	(GN * !RN * !SN)	0.00060	0.00060	0.00061
	(!GN * RN * !SN)	-0.00011	-0.00011	-0.00011
	(!GN * RN * !SN)	-0.00003	-0.00003	-0.00002
	(!GN * RN * !SN)	0.00000	0.00001	0.00001
	(!GN * RN * !SN)	0.00055	0.00056	0.00056
	(!GN * !RN * SN)	-0.00056	-0.00055	-0.00055
	(!GN * !RN * SN)	-0.00001	-0.00000	0.00000
	(!GN * !RN * SN)	0.00001	0.00002	0.00003
	(!GN * !RN * SN)	0.00012	0.00012	0.00013
	(!GN * !RN * !SN)	-0.00012	-0.00011	-0.00011
	(!GN * !RN * !SN)	-0.00003	-0.00003	-0.00002
	(!GN * !RN * !SN)	0.00001	0.00002	0.00003
	(!GN * !RN * !SN)	0.00053	0.00054	0.00055

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX0P5H7R	(GN * RN * SN)	0.00122	0.00141	0.00205
	(GN * RN * SN)	-0.00008	-0.00008	-0.00007
	(GN * RN * SN)	0.00004	0.00006	0.00006
	(GN * RN * SN)	0.00006	0.00024	0.00089
	(GN * RN * !SN)	0.00002	0.00003	0.00004
	(GN * RN * !SN)	0.00003	0.00004	0.00005
	(GN * RN * !SN)	-0.00002	-0.00002	-0.00001
	(GN * RN * !SN)	-0.00060	-0.00058	-0.00055
	(GN * !RN * SN)	0.00052	0.00052	0.00053
	(GN * !RN * SN)	0.00000	0.00000	0.00000
	(GN * !RN * SN)	-0.00003	-0.00002	-0.00002
	(GN * !RN * SN)	-0.00018	-0.00018	-0.00017
	(GN * !RN * !SN)	0.00002	0.00003	0.00004
	(GN * !RN * !SN)	0.00003	0.00003	0.00004
	(GN * !RN * !SN)	-0.00002	-0.00001	-0.00001
	(GN * !RN * !SN)	-0.00060	-0.00057	-0.00055
	(!GN * RN * !SN)	0.00011	0.00011	0.00012
	(!GN * RN * !SN)	0.00002	0.00003	0.00003
	(!GN * RN * !SN)	-0.00001	-0.00001	-0.00000
	(!GN * RN * !SN)	-0.00056	-0.00056	-0.00055
	(!GN * !RN * SN)	0.00055	0.00055	0.00056
	(!GN * !RN * SN)	0.00000	0.00001	0.00001
	(!GN * !RN * SN)	-0.00003	-0.00002	-0.00001
	(!GN * !RN * SN)	-0.00013	-0.00012	-0.00012
	(!GN * !RN * !SN)	0.00011	0.00012	0.00012
	(!GN * !RN * !SN)	0.00003	0.00003	0.00004
	(!GN * !RN * !SN)	-0.00003	-0.00001	-0.00001
	(!GN * !RN * !SN)	-0.00054	-0.00052	-0.00048

Passive power(pJ) for GN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX0P5H7R	**(D * RN * SN)**	0.00115	0.00127	0.00168
	(D * RN * SN)	0.00000	0.00001	0.00001
	(D * RN * SN)	-0.00000	0.00000	0.00000
	(D * RN * SN)	0.00190	0.00202	0.00244
	(D * RN * !SN)	0.00110	0.00121	0.00162
	(D * RN * !SN)	0.00002	0.00002	0.00002
	(D * RN * !SN)	-0.00001	-0.00000	0.00000
	(D * RN * !SN)	0.00188	0.00199	0.00241
	(D * !RN * SN)	0.00133	0.00144	0.00186
	(D * !RN * SN)	-0.00000	-0.00000	0.00000
	(D * !RN * SN)	0.00000	0.00001	0.00001
	(D * !RN * SN)	0.00206	0.00217	0.00260
	(D * !RN * !SN)	0.00109	0.00120	0.00162
	(D * !RN * !SN)	0.00001	0.00002	0.00002
	(D * !RN * !SN)	-0.00000	-0.00000	0.00000
	(D * !RN * !SN)	0.00187	0.00198	0.00240
	(!D * RN * SN)	0.00135	0.00146	0.00189
	(!D * RN * SN)	-0.00001	-0.00000	0.00000
	(!D * RN * SN)	0.00000	0.00001	0.00001
	(!D * RN * SN)	0.00209	0.00220	0.00263
	(!D * RN * !SN)	0.00110	0.00121	0.00163
	(!D * RN * !SN)	0.00002	0.00002	0.00003
	(!D * RN * !SN)	-0.00001	-0.00001	-0.00000
	(!D * RN * !SN)	0.00192	0.00203	0.00243
	(!D * !RN * SN)	0.00134	0.00146	0.00188
	(!D * !RN * SN)	-0.00000	-0.00000	0.00000
	(!D * !RN * SN)	0.00001	0.00001	0.00001
	(!D * !RN * SN)	0.00206	0.00218	0.00261
	(!D * !RN * !SN)	0.00108	0.00120	0.00161
	(!D * !RN * !SN)	0.00002	0.00002	0.00003
	(!D * !RN * !SN)	0.00000	0.00000	0.00001
	(!D * !RN * !SN)	0.00187	0.00199	0.00240

Passive power(pJ) for GN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX0P5H7R	**(D * RN * SN)**	0.00199	0.00212	0.00258
	(D * RN * SN)	-0.00000	-0.00000	0.00000
	(D * RN * SN)	-0.00000	-0.00000	0.00000
	(D * RN * SN)	0.00124	0.00137	0.00183
	(D * RN * !SN)	0.00205	0.00218	0.00264
	(D * RN * !SN)	-0.00002	-0.00002	-0.00002
	(D * RN * !SN)	-0.00000	0.00000	0.00001
	(D * RN * !SN)	0.00127	0.00140	0.00185
	(D * !RN * SN)	0.00178	0.00191	0.00237
	(D * !RN * SN)	-0.00000	0.00000	0.00001
	(D * !RN * SN)	-0.00001	-0.00001	-0.00000
	(D * !RN * SN)	0.00105	0.00118	0.00164
	(D * !RN * !SN)	0.00205	0.00217	0.00264
	(D * !RN * !SN)	-0.00002	-0.00001	-0.00001
	(D * !RN * !SN)	-0.00000	0.00000	0.00001
	(D * !RN * !SN)	0.00126	0.00140	0.00186
	(!D * RN * SN)	0.00177	0.00189	0.00236
	(!D * RN * SN)	0.00000	0.00001	0.00001
	(!D * RN * SN)	-0.00001	-0.00001	-0.00000
	(!D * RN * SN)	0.00103	0.00116	0.00162
	(!D * RN * !SN)	0.00203	0.00216	0.00262
	(!D * RN * !SN)	-0.00002	-0.00002	-0.00001
	(!D * RN * !SN)	0.00000	0.00001	0.00002
	(!D * RN * !SN)	0.00122	0.00136	0.00182
	(!D * !RN * SN)	0.00178	0.00190	0.00236
	(!D * !RN * SN)	-0.00000	0.00000	0.00001
	(!D * !RN * SN)	-0.00001	-0.00001	-0.00001
	(!D * !RN * SN)	0.00105	0.00118	0.00164
	(!D * !RN * !SN)	0.00204	0.00217	0.00263
	(!D * !RN * !SN)	-0.00002	-0.00002	-0.00001
	(!D * !RN * !SN)	-0.00001	-0.00000	0.00000
	(!D * !RN * !SN)	0.00126	0.00139	0.00185

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX0P5H7R	(D * GN * SN)	-0.00015	-0.00015	-0.00015
	(D * GN * SN)	-0.00001	-0.00000	-0.00000
	(D * GN * SN)	0.00000	0.00001	0.00001
	(D * GN * SN)	0.00031	0.00031	0.00031
	(D * GN * !SN)	-0.00010	-0.00010	-0.00009
	(D * GN * !SN)	-0.00002	-0.00002	-0.00001
	(D * GN * !SN)	0.00000	0.00001	0.00001
	(D * GN * !SN)	0.00031	0.00031	0.00032
	(D * !GN * !SN)	-0.00010	-0.00010	-0.00010
	(D * !GN * !SN)	-0.00002	-0.00002	-0.00001
	(D * !GN * !SN)	0.00000	0.00001	0.00001
	(D * !GN * !SN)	0.00031	0.00031	0.00031
	(!D * GN * SN)	-0.00015	-0.00015	-0.00015
	(!D * GN * SN)	-0.00001	-0.00000	-0.00000
	(!D * GN * SN)	0.00001	0.00001	0.00002
	(!D * GN * SN)	0.00030	0.00031	0.00032
	(!D * GN * !SN)	-0.00010	-0.00010	-0.00009
	(!D * GN * !SN)	-0.00002	-0.00002	-0.00001
	(!D * GN * !SN)	0.00000	0.00001	0.00001
	(!D * GN * !SN)	0.00031	0.00031	0.00031
	(!D * !GN * SN)	-0.00015	-0.00015	-0.00015
	(!D * !GN * SN)	-0.00000	-0.00000	-0.00000
	(!D * !GN * SN)	0.00000	0.00001	0.00001
	(!D * !GN * SN)	0.00031	0.00031	0.00031
	(!D * !GN * !SN)	-0.00011	-0.00011	-0.00011
	(!D * !GN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * !SN)	0.00001	0.00001	0.00001
	(!D * !GN * !SN)	0.00029	0.00029	0.00029

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX0P5H7R	(D * GN * SN)	0.00015	0.00016	0.00016
	(D * GN * SN)	0.00000	0.00001	0.00002
	(D * GN * SN)	-0.00001	-0.00001	-0.00000
	(D * GN * SN)	-0.00030	-0.00029	-0.00028
	(D * GN * !SN)	0.00010	0.00010	0.00010
	(D * GN * !SN)	0.00001	0.00002	0.00002
	(D * GN * !SN)	-0.00001	-0.00000	0.00001
	(D * GN * !SN)	-0.00031	-0.00031	-0.00031
	(D * !GN * !SN)	0.00010	0.00010	0.00011
	(D * !GN * !SN)	0.00001	0.00002	0.00002
	(D * !GN * !SN)	-0.00001	-0.00001	-0.00000
	(D * !GN * !SN)	-0.00031	-0.00030	-0.00029
	(!D * GN * SN)	0.00015	0.00015	0.00016
	(!D * GN * SN)	0.00000	0.00000	0.00001
	(!D * GN * SN)	-0.00001	-0.00001	-0.00000
	(!D * GN * SN)	-0.00031	-0.00030	-0.00029
	(!D * GN * !SN)	0.00009	0.00010	0.00010
	(!D * GN * !SN)	0.00002	0.00002	0.00002
	(!D * GN * !SN)	-0.00001	-0.00001	-0.00000
	(!D * GN * !SN)	-0.00031	-0.00031	-0.00031
	(!D * !GN * SN)	0.00015	0.00015	0.00016
	(!D * !GN * SN)	0.00000	0.00000	0.00001
	(!D * !GN * SN)	-0.00001	-0.00001	-0.00000
	(!D * !GN * SN)	-0.00031	-0.00030	-0.00028
	(!D * !GN * !SN)	0.00011	0.00011	0.00012
	(!D * !GN * !SN)	0.00001	0.00001	0.00001
	(!D * !GN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * !SN)	-0.00029	-0.00028	-0.00026

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX0P5H7R	(D * GN * RN)	0.00005	0.00019	0.00071
	(D * GN * RN)	0.00004	0.00005	0.00006
	(D * GN * RN)	-0.00003	-0.00002	-0.00002
	(D * GN * RN)	0.00068	0.00082	0.00134
	(D * !GN * RN)	0.00005	0.00019	0.00072
	(D * !GN * RN)	0.00004	0.00005	0.00006
	(D * !GN * RN)	-0.00003	-0.00002	-0.00002
	(D * !GN * RN)	0.00068	0.00082	0.00135
	(!D * GN * RN)	0.00004	0.00018	0.00071
	(!D * GN * RN)	0.00004	0.00005	0.00005
	(!D * GN * RN)	-0.00003	-0.00003	-0.00002
	(!D * GN * RN)	0.00068	0.00082	0.00134

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX0P5H7R	(D * GN * RN)	0.00081	0.00096	0.00151
	(D * GN * RN)	-0.00005	-0.00005	-0.00004
	(D * GN * RN)	0.00002	0.00003	0.00003
	(D * GN * RN)	0.00017	0.00033	0.00088
	(D * !GN * RN)	0.00080	0.00096	0.00151
	(D * !GN * RN)	-0.00006	-0.00005	-0.00004
	(D * !GN * RN)	0.00002	0.00003	0.00003
	(D * !GN * RN)	0.00016	0.00032	0.00087
	(!D * GN * RN)	0.00082	0.00097	0.00152
	(!D * GN * RN)	-0.00005	-0.00005	-0.00004
	(!D * GN * RN)	0.00003	0.00003	0.00003
	(!D * GN * RN)	0.00017	0.00033	0.00088

LATLSRX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch with Clear and Set
Q = !SN ? 1 : !RN ? 0 : !EN ? D : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
D	GN	RN	SN	Q	QN
x	x	x	0	1	0
0	0	x	1	0	1
x	1	0	1	0	1
x	1	1	1	IQ	IQN
1	x	0	1	0	1
1	0	1	1	1	0

Footprint

Cell Name	Area
LATLSRX1H7R	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	GN	RN	SN	Q	QN
LATLSRX1H7R	0.00149	0.00093	0.00076	0.00075	0.07042	0.07032

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSRX1H7R	0.00000	0.95063	1.45557

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX1H7R	D->Q (RR)	-	0.07723	0.23908	0.61859
	GN->Q (FR)	-	0.09194	0.25942	0.64601
	RN->Q (RR)	(D * !GN)	0.07838	0.24528	0.63618
	SN->Q (FR)	(D * GN * RN)	0.06239	0.21153	0.57221
	SN->Q (FR)	(D * GN * !RN)	0.06442	0.21596	0.57954
	SN->Q (FR)	(D * !GN * !RN)	0.06795	0.22273	0.58745
	SN->Q (FR)	(!D * GN * RN)	0.06217	0.21162	0.57272
	SN->Q (FR)	(!D * GN * !RN)	0.06622	0.21737	0.58089
	SN->Q (FR)	(!D * !GN * RN)	0.06641	0.21912	0.58199
	SN->Q (FR)	(!D * !GN * !RN)	0.06854	0.22066	0.58379

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX1H7R	D->Q (FF)	-	0.09338	0.25291	0.61280
	GN->Q (FF)	-	0.10326	0.25601	0.57655
	RN->Q (FF)	(D * GN)	0.09796	0.26366	0.63879
	RN->Q (FF)	(D * !GN)	0.10454	0.27945	0.67531
	RN->Q (FF)	(!D * GN)	0.08801	0.25187	0.62173
	SN->Q (RF)	(D * GN * !RN)	0.11933	0.25026	0.52240
	SN->Q (RF)	(D * !GN * !RN)	0.12586	0.26466	0.54491
	SN->Q (RF)	(!D * GN * !RN)	0.11941	0.25050	0.52440
	SN->Q (RF)	(!D * !GN * RN)	0.11042	0.24465	0.52245
	SN->Q (RF)	(!D * !GN * !RN)	0.09264	0.21909	0.49219

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX1H7R	D->QN (FR)	-	0.14028	0.29902	0.69779
	GN->QN (FR)	-	0.14987	0.30279	0.67602
	RN->QN (FR)	(D * GN)	0.14549	0.31327	0.73645
	RN->QN (FR)	(D * !GN)	0.15419	0.32357	0.75115
	RN->QN (FR)	(!D * GN)	0.13479	0.30107	0.71792
	SN->QN (RR)	(D * GN * !RN)	0.16694	0.30025	0.62845
	SN->QN (RR)	(D * !GN * !RN)	0.17554	0.30970	0.63757
	SN->QN (RR)	(!D * GN * !RN)	0.16627	0.30013	0.63006
	SN->QN (RR)	(!D * !GN * RN)	0.15733	0.29146	0.62106
	SN->QN (RR)	(!D * !GN * !RN)	0.13339	0.26847	0.60002

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX1H7R	D->QN (RF)	-	0.11700	0.24192	0.53680
	GN->QN (FF)	-	0.13201	0.26288	0.57288
	RN->QN (RF)	(D * !GN)	0.11818	0.24817	0.55528
	SN->QN (FF)	(D * GN * RN)	0.09713	0.21798	0.50775
	SN->QN (FF)	(D * GN * !RN)	0.09936	0.22065	0.51108
	SN->QN (FF)	(D * !GN * !RN)	0.10645	0.22841	0.51949
	SN->QN (FF)	(!D * GN * RN)	0.09708	0.21813	0.50831
	SN->QN (FF)	(!D * GN * !RN)	0.10154	0.22276	0.51340
	SN->QN (FF)	(!D * !GN * RN)	0.10337	0.22469	0.51512
	SN->QN (FF)	(!D * !GN * !RN)	0.10448	0.22558	0.51605

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX1H7R	**D**	**-**	0.00142	0.00151	0.00177
	D	**-**	0.00005	0.00006	0.00008
	D	**-**	-0.00007	-0.00006	-0.00004
	D	**-**	0.00208	0.00216	0.00242
	GN	**-**	0.00236	0.00247	0.00273
	GN	**-**	0.00002	0.00003	0.00003
	GN	**-**	-0.00004	-0.00003	-0.00002
	GN	**-**	0.00208	0.00218	0.00245
	RN	**(D * !GN)**	0.00150	0.00156	0.00165
	RN	**(D * !GN)**	0.00006	0.00007	0.00008
	RN	**(D * !GN)**	-0.00011	-0.00010	-0.00009
	RN	**(D * !GN)**	0.00214	0.00219	0.00228
	SN	**(D * GN * RN)**	0.00189	0.00201	0.00230
	SN	**(D * GN * RN)**	0.00002	0.00005	0.00008
	SN	**(D * GN * RN)**	-0.00006	-0.00003	-0.00000
	SN	**(D * GN * RN)**	0.00174	0.00185	0.00215
	SN	**(D * GN * !RN)**	0.00196	0.00208	0.00236
	SN	**(D * GN * !RN)**	0.00009	0.00010	0.00012
	SN	**(D * GN * !RN)**	-0.00008	-0.00007	-0.00005
	SN	**(D * GN * !RN)**	0.00206	0.00217	0.00245
	SN	**(D * !GN * !RN)**	0.00211	0.00222	0.00251
	SN	**(D * !GN * !RN)**	0.00008	0.00011	0.00012
	SN	**(D * !GN * !RN)**	-0.00010	-0.00009	-0.00007
	SN	**(D * !GN * !RN)**	0.00231	0.00245	0.00274
	SN	**(!D * GN * RN)**	0.00190	0.00202	0.00231
	SN	**(!D * GN * RN)**	0.00004	0.00006	0.00008
	SN	**(!D * GN * RN)**	-0.00004	-0.00004	-0.00003
	SN	**(!D * GN * RN)**	0.00180	0.00193	0.00223
	SN	**(!D * GN * !RN)**	0.00193	0.00206	0.00237
	SN	**(!D * GN * !RN)**	0.00009	0.00011	0.00014
	SN	**(!D * GN * !RN)**	-0.00008	-0.00006	-0.00006
	SN	**(!D * GN * !RN)**	0.00204	0.00216	0.00247
	SN	**(!D * !GN * RN)**	0.00207	0.00219	0.00247
	SN	**(!D * !GN * RN)**	0.00009	0.00011	0.00013
	SN	**(!D * !GN * RN)**	-0.00005	-0.00005	-0.00004
	SN	**(!D * !GN * RN)**	0.00218	0.00230	0.00258
	SN	**(!D * !GN * !RN)**	0.00206	0.00217	0.00247
	SN	**(!D * !GN * !RN)**	0.00009	0.00011	0.00012
	SN	**(!D * !GN * !RN)**	-0.00005	-0.00004	-0.00004
	SN	**(!D * !GN * !RN)**	0.00217	0.00229	0.00259

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX1H7R	**D**	**-**	0.00202	0.00212	0.00244
	D	**-**	-0.00007	-0.00006	-0.00005
	D	**-**	0.00004	0.00006	0.00007
	D	**-**	0.00137	0.00146	0.00179
	GN	**-**	0.00249	0.00259	0.00289
	GN	**-**	-0.00003	-0.00003	-0.00002
	GN	**-**	0.00002	0.00003	0.00004
	GN	**-**	0.00203	0.00213	0.00244
	RN	**(D * GN)**	0.00195	0.00202	0.00224
	RN	**(D * GN)**	-0.00007	-0.00006	-0.00006
	RN	**(D * GN)**	0.00006	0.00008	0.00010
	RN	**(D * GN)**	0.00147	0.00154	0.00176
	RN	**(D * !GN)**	0.00213	0.00219	0.00243
	RN	**(D * !GN)**	-0.00008	-0.00007	-0.00006
	RN	**(D * !GN)**	0.00009	0.00010	0.00012
	RN	**(D * !GN)**	0.00151	0.00157	0.00180
	RN	**(!D * GN)**	0.00178	0.00185	0.00207
	RN	**(!D * GN)**	-0.00005	-0.00004	-0.00003
	RN	**(!D * GN)**	0.00004	0.00006	0.00008
	RN	**(!D * GN)**	0.00140	0.00147	0.00170
	SN	**(D * GN * !RN)**	0.00223	0.00231	0.00258
	SN	**(D * GN * !RN)**	-0.00010	-0.00009	-0.00009
	SN	**(D * GN * !RN)**	0.00005	0.00007	0.00008
	SN	**(D * GN * !RN)**	0.00214	0.00223	0.00250
	SN	**(D * !GN * !RN)**	0.00237	0.00246	0.00272
	SN	**(D * !GN * !RN)**	-0.00012	-0.00011	-0.00008
	SN	**(D * !GN * !RN)**	0.00008	0.00009	0.00010
	SN	**(D * !GN * !RN)**	0.00214	0.00222	0.00249
	SN	**(!D * GN * !RN)**	0.00240	0.00249	0.00276
	SN	**(!D * GN * !RN)**	-0.00014	-0.00011	-0.00009
	SN	**(!D * GN * !RN)**	0.00006	0.00008	0.00009
	SN	**(!D * GN * !RN)**	0.00219	0.00229	0.00257
	SN	**(!D * !GN * RN)**	0.00215	0.00224	0.00252
	SN	**(!D * !GN * RN)**	-0.00012	-0.00011	-0.00009
	SN	**(!D * !GN * RN)**	0.00004	0.00005	0.00006
	SN	**(!D * !GN * RN)**	0.00202	0.00212	0.00240
	SN	**(!D * !GN * !RN)**	0.00216	0.00227	0.00254
	SN	**(!D * !GN * !RN)**	-0.00012	-0.00011	-0.00009
	SN	**(!D * !GN * !RN)**	0.00004	0.00004	0.00006
	SN	**(!D * !GN * !RN)**	0.00203	0.00213	0.00240

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX1H7R	**D**	**-**	0.00202	0.00212	0.00244
	D	**-**	-0.00008	-0.00006	-0.00006
	D	**-**	0.00005	0.00006	0.00007
	D	**-**	0.00137	0.00146	0.00179
	GN	**-**	0.00248	0.00259	0.00290
	GN	**-**	-0.00003	-0.00003	-0.00003
	GN	**-**	0.00002	0.00003	0.00004
	GN	**-**	0.00202	0.00213	0.00244
	RN	**(D * GN)**	0.00195	0.00202	0.00224
	RN	**(D * GN)**	-0.00009	-0.00006	-0.00003
	RN	**(D * GN)**	0.00006	0.00008	0.00010
	RN	**(D * GN)**	0.00146	0.00154	0.00176
	RN	**(D * !GN)**	0.00213	0.00219	0.00243
	RN	**(D * !GN)**	-0.00007	-0.00007	-0.00006
	RN	**(D * !GN)**	0.00008	0.00010	0.00012
	RN	**(D * !GN)**	0.00149	0.00157	0.00181
	RN	**(!D * GN)**	0.00178	0.00185	0.00207
	RN	**(!D * GN)**	-0.00006	-0.00004	-0.00002
	RN	**(!D * GN)**	0.00004	0.00006	0.00008
	RN	**(!D * GN)**	0.00140	0.00148	0.00170
	SN	**(D * GN * !RN)**	0.00223	0.00231	0.00259
	SN	**(D * GN * !RN)**	-0.00010	-0.00009	-0.00009
	SN	**(D * GN * !RN)**	0.00005	0.00007	0.00009
	SN	**(D * GN * !RN)**	0.00213	0.00223	0.00251
	SN	**(D * !GN * !RN)**	0.00237	0.00246	0.00273
	SN	**(D * !GN * !RN)**	-0.00011	-0.00011	-0.00011
	SN	**(D * !GN * !RN)**	0.00008	0.00009	0.00011
	SN	**(D * !GN * !RN)**	0.00212	0.00222	0.00249
	SN	**(!D * GN * !RN)**	0.00239	0.00249	0.00276
	SN	**(!D * GN * !RN)**	-0.00013	-0.00011	-0.00010
	SN	**(!D * GN * !RN)**	0.00005	0.00008	0.00010
	SN	**(!D * GN * !RN)**	0.00219	0.00229	0.00257
	SN	**(!D * !GN * RN)**	0.00216	0.00225	0.00252
	SN	**(!D * !GN * RN)**	-0.00012	-0.00011	-0.00011
	SN	**(!D * !GN * RN)**	0.00004	0.00005	0.00005
	SN	**(!D * !GN * RN)**	0.00203	0.00212	0.00239
	SN	**(!D * !GN * !RN)**	0.00217	0.00227	0.00255
	SN	**(!D * !GN * !RN)**	-0.00013	-0.00012	-0.00010
	SN	**(!D * !GN * !RN)**	0.00003	0.00004	0.00006
	SN	**(!D * !GN * !RN)**	0.00203	0.00213	0.00242

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX1H7R	**D**	**-**	0.00142	0.00151	0.00177
	D	**-**	0.00006	0.00007	0.00008
	D	**-**	-0.00006	-0.00006	-0.00004
	D	**-**	0.00208	0.00216	0.00242
	GN	**-**	0.00237	0.00247	0.00272
	GN	**-**	0.00003	0.00003	0.00003
	GN	**-**	-0.00004	-0.00003	-0.00002
	GN	**-**	0.00207	0.00218	0.00243
	RN	**(D * !GN)**	0.00151	0.00156	0.00165
	RN	**(D * !GN)**	0.00007	0.00007	0.00008
	RN	**(D * !GN)**	-0.00011	-0.00010	-0.00008
	RN	**(D * !GN)**	0.00214	0.00219	0.00228
	SN	**(D * GN * RN)**	0.00190	0.00201	0.00230
	SN	**(D * GN * RN)**	0.00004	0.00005	0.00005
	SN	**(D * GN * RN)**	-0.00005	-0.00003	-0.00003
	SN	**(D * GN * RN)**	0.00175	0.00185	0.00214
	SN	**(D * GN * !RN)**	0.00196	0.00208	0.00236
	SN	**(D * GN * !RN)**	0.00009	0.00009	0.00012
	SN	**(D * GN * !RN)**	-0.00008	-0.00007	-0.00005
	SN	**(D * GN * !RN)**	0.00205	0.00217	0.00245
	SN	**(D * !GN * !RN)**	0.00211	0.00222	0.00251
	SN	**(D * !GN * !RN)**	0.00011	0.00011	0.00011
	SN	**(D * !GN * !RN)**	-0.00010	-0.00009	-0.00008
	SN	**(D * !GN * !RN)**	0.00233	0.00245	0.00274
	SN	**(!D * GN * RN)**	0.00190	0.00202	0.00231
	SN	**(!D * GN * RN)**	0.00004	0.00006	0.00008
	SN	**(!D * GN * RN)**	-0.00004	-0.00004	-0.00004
	SN	**(!D * GN * RN)**	0.00181	0.00193	0.00222
	SN	**(!D * GN * !RN)**	0.00194	0.00206	0.00235
	SN	**(!D * GN * !RN)**	0.00010	0.00011	0.00013
	SN	**(!D * GN * !RN)**	-0.00006	-0.00006	-0.00005
	SN	**(!D * GN * !RN)**	0.00205	0.00215	0.00244
	SN	**(!D * !GN * RN)**	0.00206	0.00219	0.00247
	SN	**(!D * !GN * RN)**	0.00011	0.00011	0.00013
	SN	**(!D * !GN * RN)**	-0.00005	-0.00005	-0.00004
	SN	**(!D * !GN * RN)**	0.00219	0.00230	0.00258
	SN	**(!D * !GN * !RN)**	0.00205	0.00217	0.00246
	SN	**(!D * !GN * !RN)**	0.00010	0.00012	0.00013
	SN	**(!D * !GN * !RN)**	-0.00004	-0.00004	-0.00003
	SN	**(!D * !GN * !RN)**	0.00218	0.00229	0.00258

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX1H7R	(GN * RN * SN)	0.00008	0.00023	0.00081
	(GN * RN * SN)	0.00007	0.00008	0.00008
	(GN * RN * SN)	-0.00006	-0.00006	-0.00004
	(GN * RN * SN)	0.00124	0.00140	0.00198
	(GN * RN * !SN)	-0.00002	-0.00002	-0.00002
	(GN * RN * !SN)	-0.00004	-0.00003	-0.00003
	(GN * RN * !SN)	0.00001	0.00002	0.00003
	(GN * RN * !SN)	0.00059	0.00060	0.00060
	(GN * !RN * SN)	-0.00040	-0.00036	-0.00032
	(GN * !RN * SN)	-0.00000	-0.00000	0.00000
	(GN * !RN * SN)	0.00002	0.00003	0.00004
	(GN * !RN * SN)	0.00023	0.00025	0.00027
	(GN * !RN * !SN)	-0.00003	-0.00002	-0.00002
	(GN * !RN * !SN)	-0.00004	-0.00003	-0.00003
	(GN * !RN * !SN)	0.00001	0.00002	0.00003
	(GN * !RN * !SN)	0.00058	0.00060	0.00060
	(!GN * RN * !SN)	-0.00011	-0.00011	-0.00010
	(!GN * RN * !SN)	-0.00003	-0.00003	-0.00002
	(!GN * RN * !SN)	0.00001	0.00001	0.00001
	(!GN * RN * !SN)	0.00055	0.00056	0.00056
	(!GN * !RN * SN)	-0.00056	-0.00055	-0.00055
	(!GN * !RN * SN)	-0.00001	-0.00000	0.00000
	(!GN * !RN * SN)	0.00001	0.00002	0.00003
	(!GN * !RN * SN)	0.00012	0.00013	0.00014
	(!GN * !RN * !SN)	-0.00012	-0.00011	-0.00011
	(!GN * !RN * !SN)	-0.00003	-0.00003	-0.00003
	(!GN * !RN * !SN)	0.00001	0.00002	0.00003
	(!GN * !RN * !SN)	0.00053	0.00054	0.00055

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX1H7R	(GN * RN * SN)	0.00122	0.00141	0.00205
	(GN * RN * SN)	-0.00008	-0.00008	-0.00007
	(GN * RN * SN)	0.00004	0.00006	0.00006
	(GN * RN * SN)	0.00006	0.00024	0.00089
	(GN * RN * !SN)	0.00002	0.00003	0.00004
	(GN * RN * !SN)	0.00003	0.00004	0.00004
	(GN * RN * !SN)	-0.00002	-0.00002	-0.00001
	(GN * RN * !SN)	-0.00060	-0.00058	-0.00055
	(GN * !RN * SN)	0.00052	0.00052	0.00053
	(GN * !RN * SN)	0.00000	0.00000	0.00000
	(GN * !RN * SN)	-0.00002	-0.00002	-0.00002
	(GN * !RN * SN)	-0.00018	-0.00018	-0.00017
	(GN * !RN * !SN)	0.00002	0.00003	0.00004
	(GN * !RN * !SN)	0.00003	0.00004	0.00004
	(GN * !RN * !SN)	-0.00003	-0.00002	-0.00001
	(GN * !RN * !SN)	-0.00060	-0.00057	-0.00055
	(!GN * RN * !SN)	0.00011	0.00011	0.00011
	(!GN * RN * !SN)	0.00003	0.00003	0.00003
	(!GN * RN * !SN)	-0.00001	-0.00001	-0.00000
	(!GN * RN * !SN)	-0.00056	-0.00056	-0.00055
	(!GN * !RN * SN)	0.00055	0.00055	0.00056
	(!GN * !RN * SN)	0.00000	0.00000	0.00001
	(!GN * !RN * SN)	-0.00003	-0.00002	-0.00001
	(!GN * !RN * SN)	-0.00013	-0.00012	-0.00012
	(!GN * !RN * !SN)	0.00011	0.00012	0.00013
	(!GN * !RN * !SN)	0.00003	0.00003	0.00004
	(!GN * !RN * !SN)	-0.00003	-0.00001	-0.00001
	(!GN * !RN * !SN)	-0.00054	-0.00052	-0.00048

Passive power(pJ) for GN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX1H7R	**(D * RN * SN)**	0.00115	0.00127	0.00168
	(D * RN * SN)	0.00000	0.00001	0.00001
	(D * RN * SN)	-0.00000	-0.00000	0.00000
	(D * RN * SN)	0.00190	0.00202	0.00244
	(D * RN * !SN)	0.00110	0.00121	0.00162
	(D * RN * !SN)	0.00002	0.00002	0.00002
	(D * RN * !SN)	-0.00001	-0.00000	0.00001
	(D * RN * !SN)	0.00188	0.00199	0.00241
	(D * !RN * SN)	0.00133	0.00144	0.00186
	(D * !RN * SN)	-0.00000	-0.00000	0.00000
	(D * !RN * SN)	0.00000	0.00001	0.00001
	(D * !RN * SN)	0.00206	0.00217	0.00260
	(D * !RN * !SN)	0.00109	0.00120	0.00162
	(D * !RN * !SN)	0.00001	0.00002	0.00002
	(D * !RN * !SN)	-0.00000	-0.00000	0.00000
	(D * !RN * !SN)	0.00187	0.00198	0.00240
	(!D * RN * SN)	0.00135	0.00146	0.00189
	(!D * RN * SN)	-0.00001	-0.00000	-0.00000
	(!D * RN * SN)	0.00000	0.00000	0.00001
	(!D * RN * SN)	0.00209	0.00220	0.00263
	(!D * RN * !SN)	0.00110	0.00121	0.00163
	(!D * RN * !SN)	0.00002	0.00002	0.00002
	(!D * RN * !SN)	-0.00002	-0.00001	-0.00000
	(!D * RN * !SN)	0.00191	0.00203	0.00243
	(!D * !RN * SN)	0.00134	0.00146	0.00188
	(!D * !RN * SN)	-0.00000	-0.00000	0.00000
	(!D * !RN * SN)	0.00001	0.00001	0.00002
	(!D * !RN * SN)	0.00207	0.00218	0.00261
	(!D * !RN * !SN)	0.00108	0.00120	0.00161
	(!D * !RN * !SN)	0.00002	0.00002	0.00003
	(!D * !RN * !SN)	0.00000	0.00001	0.00001
	(!D * !RN * !SN)	0.00187	0.00199	0.00240

Passive power(pJ) for GN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX1H7R	**(D * RN * SN)**	0.00199	0.00212	0.00258
	(D * RN * SN)	-0.00000	-0.00000	0.00000
	(D * RN * SN)	-0.00000	0.00000	0.00000
	(D * RN * SN)	0.00124	0.00137	0.00183
	(D * RN * !SN)	0.00205	0.00218	0.00264
	(D * RN * !SN)	-0.00002	-0.00002	-0.00002
	(D * RN * !SN)	-0.00000	0.00000	0.00001
	(D * RN * !SN)	0.00127	0.00140	0.00185
	(D * !RN * SN)	0.00179	0.00191	0.00237
	(D * !RN * SN)	0.00000	0.00000	0.00001
	(D * !RN * SN)	-0.00001	-0.00001	-0.00000
	(D * !RN * SN)	0.00105	0.00118	0.00164
	(D * !RN * !SN)	0.00205	0.00217	0.00264
	(D * !RN * !SN)	-0.00002	-0.00001	-0.00001
	(D * !RN * !SN)	0.00000	0.00000	0.00001
	(D * !RN * !SN)	0.00126	0.00140	0.00186
	(!D * RN * SN)	0.00177	0.00189	0.00236
	(!D * RN * SN)	0.00000	0.00001	0.00001
	(!D * RN * SN)	-0.00001	-0.00000	-0.00000
	(!D * RN * SN)	0.00103	0.00116	0.00162
	(!D * RN * !SN)	0.00203	0.00216	0.00262
	(!D * RN * !SN)	-0.00002	-0.00002	-0.00001
	(!D * RN * !SN)	0.00000	0.00001	0.00002
	(!D * RN * !SN)	0.00122	0.00136	0.00182
	(!D * !RN * SN)	0.00177	0.00190	0.00236
	(!D * !RN * SN)	-0.00000	0.00000	0.00001
	(!D * !RN * SN)	-0.00001	-0.00001	-0.00001
	(!D * !RN * SN)	0.00105	0.00118	0.00164
	(!D * !RN * !SN)	0.00204	0.00217	0.00263
	(!D * !RN * !SN)	-0.00002	-0.00002	-0.00001
	(!D * !RN * !SN)	-0.00001	-0.00000	-0.00000
	(!D * !RN * !SN)	0.00126	0.00139	0.00185

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX1H7R	(D * GN * SN)	-0.00015	-0.00015	-0.00015
	(D * GN * SN)	-0.00001	-0.00001	-0.00000
	(D * GN * SN)	0.00000	0.00001	0.00001
	(D * GN * SN)	0.00030	0.00031	0.00031
	(D * GN * !SN)	-0.00010	-0.00010	-0.00009
	(D * GN * !SN)	-0.00002	-0.00001	-0.00001
	(D * GN * !SN)	0.00000	0.00001	0.00001
	(D * GN * !SN)	0.00031	0.00032	0.00032
	(D * !GN * !SN)	-0.00010	-0.00010	-0.00010
	(D * !GN * !SN)	-0.00002	-0.00002	-0.00001
	(D * !GN * !SN)	0.00000	0.00000	0.00001
	(D * !GN * !SN)	0.00031	0.00031	0.00031
	(!D * GN * SN)	-0.00015	-0.00015	-0.00015
	(!D * GN * SN)	-0.00001	-0.00000	0.00001
	(!D * GN * SN)	0.00001	0.00001	0.00001
	(!D * GN * SN)	0.00031	0.00031	0.00031
	(!D * GN * !SN)	-0.00010	-0.00009	-0.00009
	(!D * GN * !SN)	-0.00002	-0.00002	-0.00001
	(!D * GN * !SN)	0.00001	0.00001	0.00001
	(!D * GN * !SN)	0.00031	0.00031	0.00031
	(!D * !GN * SN)	-0.00015	-0.00015	-0.00015
	(!D * !GN * SN)	-0.00000	-0.00000	0.00000
	(!D * !GN * SN)	0.00001	0.00001	0.00001
	(!D * !GN * SN)	0.00031	0.00031	0.00032
	(!D * !GN * !SN)	-0.00011	-0.00011	-0.00011
	(!D * !GN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * !SN)	0.00001	0.00001	0.00001
	(!D * !GN * !SN)	0.00028	0.00029	0.00029

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX1H7R	(D * GN * SN)	0.00015	0.00016	0.00016
	(D * GN * SN)	0.00000	0.00001	0.00001
	(D * GN * SN)	-0.00001	-0.00001	-0.00000
	(D * GN * SN)	-0.00030	-0.00029	-0.00027
	(D * GN * !SN)	0.00009	0.00010	0.00010
	(D * GN * !SN)	0.00001	0.00002	0.00003
	(D * GN * !SN)	-0.00001	-0.00000	0.00001
	(D * GN * !SN)	-0.00032	-0.00031	-0.00031
	(D * !GN * !SN)	0.00010	0.00010	0.00010
	(D * !GN * !SN)	0.00002	0.00002	0.00002
	(D * !GN * !SN)	-0.00001	-0.00000	0.00000
	(D * !GN * !SN)	-0.00031	-0.00030	-0.00029
	(!D * GN * SN)	0.00015	0.00015	0.00016
	(!D * GN * SN)	0.00000	0.00000	0.00001
	(!D * GN * SN)	-0.00001	-0.00001	-0.00001
	(!D * GN * SN)	-0.00031	-0.00030	-0.00028
	(!D * GN * !SN)	0.00010	0.00010	0.00010
	(!D * GN * !SN)	0.00002	0.00002	0.00002
	(!D * GN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * GN * !SN)	-0.00031	-0.00031	-0.00031
	(!D * !GN * SN)	0.00015	0.00015	0.00016
	(!D * !GN * SN)	-0.00000	0.00000	0.00000
	(!D * !GN * SN)	-0.00001	-0.00001	-0.00000
	(!D * !GN * SN)	-0.00031	-0.00030	-0.00030
	(!D * !GN * !SN)	0.00011	0.00011	0.00012
	(!D * !GN * !SN)	0.00001	0.00001	0.00002
	(!D * !GN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * !SN)	-0.00029	-0.00028	-0.00026

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX1H7R	(D * GN * RN)	0.00005	0.00019	0.00071
	(D * GN * RN)	0.00004	0.00005	0.00006
	(D * GN * RN)	-0.00003	-0.00002	-0.00002
	(D * GN * RN)	0.00068	0.00082	0.00134
	(D * !GN * RN)	0.00005	0.00019	0.00071
	(D * !GN * RN)	0.00004	0.00005	0.00006
	(D * !GN * RN)	-0.00003	-0.00002	-0.00002
	(D * !GN * RN)	0.00068	0.00082	0.00134
	(!D * GN * RN)	0.00004	0.00019	0.00070
	(!D * GN * RN)	0.00004	0.00004	0.00005
	(!D * GN * RN)	-0.00003	-0.00003	-0.00002
	(!D * GN * RN)	0.00067	0.00082	0.00134

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX1H7R	(D * GN * RN)	0.00081	0.00096	0.00151
	(D * GN * RN)	-0.00006	-0.00005	-0.00004
	(D * GN * RN)	0.00002	0.00003	0.00003
	(D * GN * RN)	0.00017	0.00033	0.00088
	(D * !GN * RN)	0.00081	0.00096	0.00151
	(D * !GN * RN)	-0.00005	-0.00005	-0.00004
	(D * !GN * RN)	0.00002	0.00002	0.00003
	(D * !GN * RN)	0.00017	0.00032	0.00088
	(!D * GN * RN)	0.00082	0.00097	0.00152
	(!D * GN * RN)	-0.00004	-0.00004	-0.00004
	(!D * GN * RN)	0.00002	0.00003	0.00003
	(!D * GN * RN)	0.00017	0.00033	0.00088

LATLSRX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch with Clear and Set
Q = !SN ? 1 : !RN ? 0 : !EN ? D : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
D	GN	RN	SN	Q	QN
x	x	x	0	1	0
0	0	x	1	0	1
x	1	0	1	0	1
x	1	1	1	IQ	IQN
1	x	0	1	0	1
1	0	1	1	1	0

Footprint

Cell Name	Area
LATLSRX2H7R	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	D	GN	RN	SN	Q	QN
LATLSRX2H7R	0.00148	0.00094	0.00076	0.00075	0.08115	0.08085

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSRX2H7R	0.00000	1.01267	1.53926

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX2H7R	D->Q (RR)	-	0.07741	0.24057	0.62179
	GN->Q (FR)	-	0.09449	0.26409	0.65428
	RN->Q (RR)	(D * !GN)	0.07872	0.24691	0.63997
	SN->Q (FR)	(D * GN * RN)	0.06380	0.21363	0.57516
	SN->Q (FR)	(D * GN * !RN)	0.06522	0.21764	0.58298
	SN->Q (FR)	(D * !GN * !RN)	0.06805	0.22388	0.58925
	SN->Q (FR)	(!D * GN * RN)	0.06410	0.21441	0.57712
	SN->Q (FR)	(!D * GN * !RN)	0.06728	0.21921	0.58282
	SN->Q (FR)	(!D * !GN * RN)	0.06630	0.22016	0.58424
	SN->Q (FR)	(!D * !GN * !RN)	0.06872	0.22186	0.58541

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX2H7R	D->Q (FF)	-	0.09324	0.25519	0.61864
	GN->Q (FF)	-	0.10257	0.25805	0.58222
	RN->Q (FF)	(D * GN)	0.09863	0.26731	0.64502
	RN->Q (FF)	(D * !GN)	0.10470	0.28207	0.68135
	RN->Q (FF)	(!D * GN)	0.08835	0.25504	0.62699
	SN->Q (RF)	(D * GN * !RN)	0.12057	0.25426	0.52886
	SN->Q (RF)	(D * !GN * !RN)	0.12651	0.26761	0.55123
	SN->Q (RF)	(!D * GN * !RN)	0.12070	0.25445	0.53063
	SN->Q (RF)	(!D * !GN * RN)	0.11096	0.24727	0.52758
	SN->Q (RF)	(!D * !GN * !RN)	0.09300	0.22131	0.49715

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX2H7R	D->QN (FR)	-	0.14301	0.30247	0.70212
	GN->QN (FR)	-	0.15204	0.30582	0.67961
	RN->QN (FR)	(D * GN)	0.15037	0.31885	0.74361
	RN->QN (FR)	(D * !GN)	0.15743	0.32748	0.75594
	RN->QN (FR)	(!D * GN)	0.13920	0.30620	0.72454
	SN->QN (RR)	(D * GN * !RN)	0.17250	0.30603	0.63358
	SN->QN (RR)	(D * !GN * !RN)	0.17928	0.31384	0.64186
	SN->QN (RR)	(!D * GN * !RN)	0.17177	0.30582	0.63528
	SN->QN (RR)	(!D * !GN * RN)	0.16076	0.29515	0.62482
	SN->QN (RR)	(!D * !GN * !RN)	0.13612	0.27142	0.60263

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSRX2H7R	D->QN (RF)	-	0.11974	0.24578	0.54261
	GN->QN (FF)	-	0.13711	0.26985	0.58402
	RN->QN (RF)	(D * !GN)	0.12108	0.25216	0.56144
	SN->QN (FF)	(D * GN * RN)	0.10057	0.22210	0.51301
	SN->QN (FF)	(D * GN * !RN)	0.10226	0.22433	0.51581
	SN->QN (FF)	(D * !GN * !RN)	0.10917	0.23185	0.52383
	SN->QN (FF)	(!D * GN * RN)	0.10122	0.22299	0.51438
	SN->QN (FF)	(!D * GN * !RN)	0.10474	0.22669	0.51828
	SN->QN (FF)	(!D * !GN * RN)	0.10588	0.22793	0.51940
	SN->QN (FF)	(!D * !GN * !RN)	0.10707	0.22888	0.52029

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX2H7R	**D**	**-**	0.00150	0.00158	0.00185
	D	**-**	0.00006	0.00007	0.00007
	D	**-**	-0.00006	-0.00006	-0.00004
	D	**-**	0.00214	0.00223	0.00250
	GN	**-**	0.00247	0.00258	0.00284
	GN	**-**	0.00002	0.00003	0.00004
	GN	**-**	-0.00004	-0.00003	-0.00001
	GN	**-**	0.00218	0.00229	0.00256
	RN	**(D * !GN)**	0.00158	0.00163	0.00173
	RN	**(D * !GN)**	0.00007	0.00007	0.00008
	RN	**(D * !GN)**	-0.00011	-0.00010	-0.00009
	RN	**(D * !GN)**	0.00221	0.00226	0.00236
	SN	**(D * GN * RN)**	0.00196	0.00209	0.00238
	SN	**(D * GN * RN)**	0.00005	0.00007	0.00010
	SN	**(D * GN * RN)**	-0.00006	-0.00003	-0.00001
	SN	**(D * GN * RN)**	0.00181	0.00195	0.00226
	SN	**(D * GN * !RN)**	0.00203	0.00216	0.00247
	SN	**(D * GN * !RN)**	0.00010	0.00012	0.00014
	SN	**(D * GN * !RN)**	-0.00008	-0.00007	-0.00005
	SN	**(D * GN * !RN)**	0.00215	0.00227	0.00260
	SN	**(D * !GN * !RN)**	0.00219	0.00232	0.00260
	SN	**(D * !GN * !RN)**	0.00010	0.00013	0.00015
	SN	**(D * !GN * !RN)**	-0.00010	-0.00009	-0.00007
	SN	**(D * !GN * !RN)**	0.00244	0.00256	0.00284
	SN	**(!D * GN * RN)**	0.00197	0.00210	0.00242
	SN	**(!D * GN * RN)**	0.00007	0.00009	0.00011
	SN	**(!D * GN * RN)**	-0.00005	-0.00004	-0.00004
	SN	**(!D * GN * RN)**	0.00191	0.00204	0.00239
	SN	**(!D * GN * !RN)**	0.00203	0.00214	0.00243
	SN	**(!D * GN * !RN)**	0.00011	0.00014	0.00015
	SN	**(!D * GN * !RN)**	-0.00007	-0.00006	-0.00004
	SN	**(!D * GN * !RN)**	0.00214	0.00226	0.00254
	SN	**(!D * !GN * RN)**	0.00216	0.00229	0.00258
	SN	**(!D * !GN * RN)**	0.00010	0.00013	0.00015
	SN	**(!D * !GN * RN)**	-0.00006	-0.00005	-0.00003
	SN	**(!D * !GN * RN)**	0.00229	0.00241	0.00272
	SN	**(!D * !GN * !RN)**	0.00214	0.00227	0.00256
	SN	**(!D * !GN * !RN)**	0.00010	0.00013	0.00016
	SN	**(!D * !GN * !RN)**	-0.00004	-0.00004	-0.00003
	SN	**(!D * !GN * !RN)**	0.00228	0.00240	0.00269

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX2H7R	**D**	**-**	0.00210	0.00220	0.00254
	D	**-**	-0.00007	-0.00007	-0.00006
	D	**-**	0.00004	0.00006	0.00007
	D	**-**	0.00145	0.00154	0.00189
	GN	**-**	0.00259	0.00270	0.00301
	GN	**-**	-0.00004	-0.00003	-0.00002
	GN	**-**	0.00001	0.00003	0.00004
	GN	**-**	0.00212	0.00223	0.00253
	RN	**(D * GN)**	0.00209	0.00215	0.00241
	RN	**(D * GN)**	-0.00010	-0.00008	-0.00006
	RN	**(D * GN)**	0.00006	0.00008	0.00010
	RN	**(D * GN)**	0.00157	0.00166	0.00191
	RN	**(D * !GN)**	0.00222	0.00228	0.00254
	RN	**(D * !GN)**	-0.00008	-0.00007	-0.00006
	RN	**(D * !GN)**	0.00009	0.00010	0.00012
	RN	**(D * !GN)**	0.00157	0.00165	0.00192
	RN	**(!D * GN)**	0.00191	0.00198	0.00223
	RN	**(!D * GN)**	-0.00009	-0.00006	-0.00005
	RN	**(!D * GN)**	0.00004	0.00006	0.00008
	RN	**(!D * GN)**	0.00151	0.00159	0.00184
	SN	**(D * GN * !RN)**	0.00237	0.00246	0.00274
	SN	**(D * GN * !RN)**	-0.00013	-0.00012	-0.00010
	SN	**(D * GN * !RN)**	0.00006	0.00007	0.00009
	SN	**(D * GN * !RN)**	0.00224	0.00235	0.00263
	SN	**(D * !GN * !RN)**	0.00247	0.00255	0.00284
	SN	**(D * !GN * !RN)**	-0.00014	-0.00012	-0.00010
	SN	**(D * !GN * !RN)**	0.00007	0.00009	0.00011
	SN	**(D * !GN * !RN)**	0.00222	0.00231	0.00259
	SN	**(!D * GN * !RN)**	0.00254	0.00264	0.00291
	SN	**(!D * GN * !RN)**	-0.00015	-0.00014	-0.00011
	SN	**(!D * GN * !RN)**	0.00006	0.00008	0.00009
	SN	**(!D * GN * !RN)**	0.00232	0.00242	0.00271
	SN	**(!D * !GN * RN)**	0.00224	0.00234	0.00261
	SN	**(!D * !GN * RN)**	-0.00014	-0.00012	-0.00010
	SN	**(!D * !GN * RN)**	0.00003	0.00005	0.00018
	SN	**(!D * !GN * RN)**	0.00201	0.00219	0.00247
	SN	**(!D * !GN * !RN)**	0.00226	0.00236	0.00264
	SN	**(!D * !GN * !RN)**	-0.00015	-0.00013	-0.00010
	SN	**(!D * !GN * !RN)**	0.00003	0.00004	0.00005
	SN	**(!D * !GN * !RN)**	0.00211	0.00221	0.00250

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX2H7R	**D**	**-**	0.00211	0.00220	0.00254
	D	**-**	-0.00008	-0.00007	-0.00006
	D	**-**	0.00004	0.00006	0.00006
	D	**-**	0.00146	0.00154	0.00189
	GN	**-**	0.00260	0.00270	0.00302
	GN	**-**	-0.00004	-0.00003	-0.00003
	GN	**-**	0.00002	0.00003	0.00004
	GN	**-**	0.00212	0.00223	0.00254
	RN	**(D * GN)**	0.00209	0.00215	0.00241
	RN	**(D * GN)**	-0.00010	-0.00008	-0.00006
	RN	**(D * GN)**	0.00005	0.00008	0.00010
	RN	**(D * GN)**	0.00160	0.00166	0.00191
	RN	**(D * !GN)**	0.00222	0.00228	0.00255
	RN	**(D * !GN)**	-0.00008	-0.00007	-0.00006
	RN	**(D * !GN)**	0.00009	0.00010	0.00011
	RN	**(D * !GN)**	0.00159	0.00165	0.00192
	RN	**(!D * GN)**	0.00190	0.00198	0.00223
	RN	**(!D * GN)**	-0.00009	-0.00007	-0.00006
	RN	**(!D * GN)**	0.00003	0.00006	0.00008
	RN	**(!D * GN)**	0.00150	0.00159	0.00184
	SN	**(D * GN * !RN)**	0.00237	0.00246	0.00273
	SN	**(D * GN * !RN)**	-0.00012	-0.00012	-0.00011
	SN	**(D * GN * !RN)**	0.00005	0.00007	0.00009
	SN	**(D * GN * !RN)**	0.00223	0.00235	0.00262
	SN	**(D * !GN * !RN)**	0.00247	0.00255	0.00283
	SN	**(D * !GN * !RN)**	-0.00013	-0.00013	-0.00011
	SN	**(D * !GN * !RN)**	0.00007	0.00009	0.00010
	SN	**(D * !GN * !RN)**	0.00222	0.00231	0.00259
	SN	**(!D * GN * !RN)**	0.00254	0.00264	0.00291
	SN	**(!D * GN * !RN)**	-0.00015	-0.00014	-0.00012
	SN	**(!D * GN * !RN)**	0.00005	0.00008	0.00010
	SN	**(!D * GN * !RN)**	0.00230	0.00242	0.00269
	SN	**(!D * !GN * RN)**	0.00225	0.00234	0.00262
	SN	**(!D * !GN * RN)**	-0.00014	-0.00013	-0.00012
	SN	**(!D * !GN * RN)**	0.00004	0.00005	0.00006
	SN	**(!D * !GN * RN)**	0.00211	0.00220	0.00249
	SN	**(!D * !GN * !RN)**	0.00226	0.00236	0.00264
	SN	**(!D * !GN * !RN)**	-0.00014	-0.00013	-0.00012
	SN	**(!D * !GN * !RN)**	0.00003	0.00004	0.00004
	SN	**(!D * !GN * !RN)**	0.00211	0.00221	0.00249

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

LATLSRX2H7R	**D**	**-**	0.00149	0.00158	0.00185
	D	**-**	0.00006	0.00007	0.00008
	D	**-**	-0.00006	-0.00006	-0.00004
	D	**-**	0.00213	0.00223	0.00250
	GN	**-**	0.00248	0.00258	0.00285
	GN	**-**	0.00003	0.00003	0.00004
	GN	**-**	-0.00004	-0.00003	-0.00002
	GN	**-**	0.00219	0.00229	0.00256
	RN	**(D * !GN)**	0.00158	0.00163	0.00173
	RN	**(D * !GN)**	0.00006	0.00007	0.00008
	RN	**(D * !GN)**	-0.00011	-0.00010	-0.00009
	RN	**(D * !GN)**	0.00221	0.00226	0.00236
	SN	**(D * GN * RN)**	0.00196	0.00209	0.00239
	SN	**(D * GN * RN)**	0.00007	0.00007	0.00009
	SN	**(D * GN * RN)**	-0.00005	-0.00003	-0.00002
	SN	**(D * GN * RN)**	0.00182	0.00195	0.00226
	SN	**(D * GN * !RN)**	0.00203	0.00215	0.00245
	SN	**(D * GN * !RN)**	0.00011	0.00012	0.00013
	SN	**(D * GN * !RN)**	-0.00008	-0.00007	-0.00005
	SN	**(D * GN * !RN)**	0.00215	0.00227	0.00257
	SN	**(D * !GN * !RN)**	0.00220	0.00232	0.00261
	SN	**(D * !GN * !RN)**	0.00011	0.00013	0.00013
	SN	**(D * !GN * !RN)**	-0.00010	-0.00009	-0.00007
	SN	**(D * !GN * !RN)**	0.00244	0.00255	0.00285
	SN	**(!D * GN * RN)**	0.00198	0.00210	0.00241
	SN	**(!D * GN * RN)**	0.00007	0.00009	0.00010
	SN	**(!D * GN * RN)**	-0.00006	-0.00004	-0.00002
	SN	**(!D * GN * RN)**	0.00190	0.00204	0.00237
	SN	**(!D * GN * !RN)**	0.00202	0.00214	0.00243
	SN	**(!D * GN * !RN)**	0.00012	0.00014	0.00015
	SN	**(!D * GN * !RN)**	-0.00008	-0.00006	-0.00004
	SN	**(!D * GN * !RN)**	0.00213	0.00226	0.00255
	SN	**(!D * !GN * RN)**	0.00216	0.00229	0.00258
	SN	**(!D * !GN * RN)**	0.00012	0.00013	0.00014
	SN	**(!D * !GN * RN)**	-0.00005	-0.00005	-0.00004
	SN	**(!D * !GN * RN)**	0.00228	0.00241	0.00270
	SN	**(!D * !GN * !RN)**	0.00215	0.00227	0.00256
	SN	**(!D * !GN * !RN)**	0.00012	0.00013	0.00015
	SN	**(!D * !GN * !RN)**	-0.00004	-0.00004	-0.00003
	SN	**(!D * !GN * !RN)**	0.00228	0.00240	0.00269

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX2H7R	(GN * RN * SN)	0.00008	0.00024	0.00081
	(GN * RN * SN)	0.00006	0.00008	0.00008
	(GN * RN * SN)	-0.00007	-0.00006	-0.00005
	(GN * RN * SN)	0.00124	0.00139	0.00197
	(GN * RN * !SN)	-0.00003	-0.00003	-0.00002
	(GN * RN * !SN)	-0.00004	-0.00003	-0.00003
	(GN * RN * !SN)	0.00001	0.00002	0.00002
	(GN * RN * !SN)	0.00059	0.00060	0.00060
	(GN * !RN * SN)	-0.00040	-0.00036	-0.00031
	(GN * !RN * SN)	-0.00001	-0.00000	0.00000
	(GN * !RN * SN)	0.00002	0.00003	0.00004
	(GN * !RN * SN)	0.00024	0.00025	0.00028
	(GN * !RN * !SN)	-0.00003	-0.00003	-0.00002
	(GN * !RN * !SN)	-0.00004	-0.00003	-0.00003
	(GN * !RN * !SN)	0.00001	0.00002	0.00002
	(GN * !RN * !SN)	0.00059	0.00059	0.00060
	(!GN * RN * !SN)	-0.00011	-0.00011	-0.00011
	(!GN * RN * !SN)	-0.00003	-0.00003	-0.00002
	(!GN * RN * !SN)	0.00000	0.00001	0.00001
	(!GN * RN * !SN)	0.00055	0.00055	0.00055
	(!GN * !RN * SN)	-0.00055	-0.00055	-0.00054
	(!GN * !RN * SN)	-0.00001	-0.00001	-0.00000
	(!GN * !RN * SN)	0.00002	0.00002	0.00004
	(!GN * !RN * SN)	0.00011	0.00012	0.00013
	(!GN * !RN * !SN)	-0.00012	-0.00012	-0.00012
	(!GN * !RN * !SN)	-0.00003	-0.00003	-0.00001
	(!GN * !RN * !SN)	0.00001	0.00002	0.00003
	(!GN * !RN * !SN)	0.00052	0.00053	0.00053

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX2H7R	(GN * RN * SN)	0.00124	0.00143	0.00207
	(GN * RN * SN)	-0.00008	-0.00008	-0.00006
	(GN * RN * SN)	0.00005	0.00006	0.00007
	(GN * RN * SN)	0.00009	0.00027	0.00091
	(GN * RN * !SN)	0.00003	0.00003	0.00004
	(GN * RN * !SN)	0.00004	0.00004	0.00005
	(GN * RN * !SN)	-0.00002	-0.00002	-0.00001
	(GN * RN * !SN)	-0.00060	-0.00057	-0.00054
	(GN * !RN * SN)	0.00051	0.00052	0.00052
	(GN * !RN * SN)	0.00000	0.00000	0.00001
	(GN * !RN * SN)	-0.00002	-0.00002	-0.00001
	(GN * !RN * SN)	-0.00019	-0.00018	-0.00018
	(GN * !RN * !SN)	0.00003	0.00003	0.00004
	(GN * !RN * !SN)	0.00003	0.00004	0.00005
	(GN * !RN * !SN)	-0.00002	-0.00002	-0.00001
	(GN * !RN * !SN)	-0.00059	-0.00057	-0.00054
	(!GN * RN * !SN)	0.00011	0.00011	0.00012
	(!GN * RN * !SN)	0.00003	0.00003	0.00004
	(!GN * RN * !SN)	-0.00001	-0.00001	-0.00000
	(!GN * RN * !SN)	-0.00055	-0.00054	-0.00053
	(!GN * !RN * SN)	0.00055	0.00055	0.00055
	(!GN * !RN * SN)	0.00000	0.00001	0.00001
	(!GN * !RN * SN)	-0.00002	-0.00002	-0.00001
	(!GN * !RN * SN)	-0.00012	-0.00012	-0.00011
	(!GN * !RN * !SN)	0.00012	0.00013	0.00015
	(!GN * !RN * !SN)	0.00001	0.00003	0.00003
	(!GN * !RN * !SN)	-0.00003	-0.00002	-0.00001
	(!GN * !RN * !SN)	-0.00053	-0.00051	-0.00048

Passive power(pJ) for GN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX2H7R	**(D * RN * SN)**	0.00120	0.00132	0.00175
	(D * RN * SN)	0.00001	0.00001	0.00001
	(D * RN * SN)	0.00000	0.00000	0.00001
	(D * RN * SN)	0.00196	0.00208	0.00251
	(D * RN * !SN)	0.00115	0.00126	0.00169
	(D * RN * !SN)	0.00003	0.00003	0.00003
	(D * RN * !SN)	0.00000	0.00000	0.00001
	(D * RN * !SN)	0.00194	0.00205	0.00248
	(D * !RN * SN)	0.00143	0.00155	0.00199
	(D * !RN * SN)	-0.00001	-0.00000	0.00000
	(D * !RN * SN)	0.00001	0.00001	0.00001
	(D * !RN * SN)	0.00218	0.00229	0.00273
	(D * !RN * !SN)	0.00114	0.00126	0.00169
	(D * !RN * !SN)	0.00002	0.00002	0.00002
	(D * !RN * !SN)	0.00000	0.00000	0.00000
	(D * !RN * !SN)	0.00194	0.00205	0.00248
	(!D * RN * SN)	0.00147	0.00159	0.00202
	(!D * RN * SN)	-0.00001	-0.00001	0.00000
	(!D * RN * SN)	0.00001	0.00001	0.00002
	(!D * RN * SN)	0.00221	0.00233	0.00276
	(!D * RN * !SN)	0.00115	0.00127	0.00169
	(!D * RN * !SN)	0.00002	0.00003	0.00003
	(!D * RN * !SN)	-0.00001	-0.00001	-0.00000
	(!D * RN * !SN)	0.00198	0.00210	0.00251
	(!D * !RN * SN)	0.00147	0.00158	0.00202
	(!D * !RN * SN)	-0.00001	-0.00001	0.00000
	(!D * !RN * SN)	0.00001	0.00002	0.00002
	(!D * !RN * SN)	0.00219	0.00231	0.00274
	(!D * !RN * !SN)	0.00114	0.00125	0.00168
	(!D * !RN * !SN)	0.00002	0.00003	0.00003
	(!D * !RN * !SN)	0.00000	0.00001	0.00001
	(!D * !RN * !SN)	0.00194	0.00206	0.00247

Passive power(pJ) for GN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

LATLSRX2H7R	**(D * RN * SN)**	0.00209	0.00222	0.00269
	(D * RN * SN)	-0.00001	-0.00001	-0.00000
	(D * RN * SN)	-0.00001	-0.00000	0.00001
	(D * RN * SN)	0.00132	0.00145	0.00193
	(D * RN * !SN)	0.00215	0.00228	0.00274
	(D * RN * !SN)	-0.00003	-0.00003	-0.00002
	(D * RN * !SN)	-0.00001	-0.00000	0.00000
	(D * RN * !SN)	0.00135	0.00148	0.00195
	(D * !RN * SN)	0.00183	0.00196	0.00243
	(D * !RN * SN)	0.00000	0.00001	0.00001
	(D * !RN * SN)	-0.00001	-0.00001	-0.00001
	(D * !RN * SN)	0.00108	0.00122	0.00169
	(D * !RN * !SN)	0.00214	0.00227	0.00274
	(D * !RN * !SN)	-0.00002	-0.00002	-0.00002
	(D * !RN * !SN)	-0.00000	-0.00000	0.00000
	(D * !RN * !SN)	0.00135	0.00148	0.00195
	(!D * RN * SN)	0.00181	0.00194	0.00241
	(!D * RN * SN)	0.00000	0.00001	0.00001
	(!D * RN * SN)	-0.00001	-0.00001	-0.00000
	(!D * RN * SN)	0.00107	0.00120	0.00167
	(!D * RN * !SN)	0.00212	0.00225	0.00272
	(!D * RN * !SN)	-0.00003	-0.00002	-0.00002
	(!D * RN * !SN)	0.00000	0.00001	0.00001
	(!D * RN * !SN)	0.00131	0.00144	0.00191
	(!D * !RN * SN)	0.00182	0.00195	0.00242
	(!D * !RN * SN)	0.00000	0.00001	0.00001
	(!D * !RN * SN)	-0.00002	-0.00001	-0.00001
	(!D * !RN * SN)	0.00109	0.00122	0.00169
	(!D * !RN * !SN)	0.00213	0.00227	0.00274
	(!D * !RN * !SN)	-0.00003	-0.00002	-0.00002
	(!D * !RN * !SN)	-0.00001	-0.00001	0.00000
	(!D * !RN * !SN)	0.00134	0.00147	0.00194

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX2H7R	(D * GN * SN)	-0.00015	-0.00015	-0.00015
	(D * GN * SN)	-0.00001	-0.00001	-0.00000
	(D * GN * SN)	0.00000	0.00001	0.00001
	(D * GN * SN)	0.00031	0.00031	0.00031
	(D * GN * !SN)	-0.00010	-0.00010	-0.00010
	(D * GN * !SN)	-0.00002	-0.00002	-0.00001
	(D * GN * !SN)	0.00000	0.00000	0.00001
	(D * GN * !SN)	0.00031	0.00031	0.00031
	(D * !GN * !SN)	-0.00010	-0.00010	-0.00010
	(D * !GN * !SN)	-0.00002	-0.00002	-0.00002
	(D * !GN * !SN)	0.00000	0.00001	0.00001
	(D * !GN * !SN)	0.00030	0.00031	0.00031
	(!D * GN * SN)	-0.00015	-0.00015	-0.00014
	(!D * GN * SN)	-0.00000	-0.00000	-0.00000
	(!D * GN * SN)	0.00001	0.00001	0.00002
	(!D * GN * SN)	0.00030	0.00031	0.00031
	(!D * GN * !SN)	-0.00010	-0.00010	-0.00010
	(!D * GN * !SN)	-0.00002	-0.00001	-0.00001
	(!D * GN * !SN)	0.00000	0.00001	0.00001
	(!D * GN * !SN)	0.00031	0.00031	0.00031
	(!D * !GN * SN)	-0.00015	-0.00015	-0.00015
	(!D * !GN * SN)	-0.00000	-0.00000	-0.00000
	(!D * !GN * SN)	0.00001	0.00001	0.00002
	(!D * !GN * SN)	0.00030	0.00031	0.00031
	(!D * !GN * !SN)	-0.00011	-0.00011	-0.00011
	(!D * !GN * !SN)	-0.00002	-0.00002	-0.00001
	(!D * !GN * !SN)	0.00001	0.00001	0.00001
	(!D * !GN * !SN)	0.00029	0.00029	0.00029

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX2H7R	(D * GN * SN)	0.00015	0.00016	0.00016
	(D * GN * SN)	0.00000	0.00001	0.00001
	(D * GN * SN)	-0.00001	-0.00001	-0.00000
	(D * GN * SN)	-0.00030	-0.00029	-0.00028
	(D * GN * !SN)	0.00010	0.00010	0.00011
	(D * GN * !SN)	0.00001	0.00002	0.00002
	(D * GN * !SN)	-0.00001	-0.00000	-0.00000
	(D * GN * !SN)	-0.00031	-0.00031	-0.00030
	(D * !GN * !SN)	0.00010	0.00011	0.00011
	(D * !GN * !SN)	0.00002	0.00002	0.00002
	(D * !GN * !SN)	-0.00001	-0.00000	0.00001
	(D * !GN * !SN)	-0.00031	-0.00030	-0.00030
	(!D * GN * SN)	0.00015	0.00015	0.00016
	(!D * GN * SN)	0.00000	0.00000	0.00001
	(!D * GN * SN)	-0.00001	-0.00001	-0.00001
	(!D * GN * SN)	-0.00031	-0.00030	-0.00029
	(!D * GN * !SN)	0.00010	0.00010	0.00011
	(!D * GN * !SN)	0.00001	0.00002	0.00002
	(!D * GN * !SN)	-0.00001	-0.00001	-0.00000
	(!D * GN * !SN)	-0.00031	-0.00031	-0.00031
	(!D * !GN * SN)	0.00015	0.00015	0.00016
	(!D * !GN * SN)	0.00000	0.00000	0.00000
	(!D * !GN * SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * SN)	-0.00031	-0.00030	-0.00029
	(!D * !GN * !SN)	0.00011	0.00012	0.00012
	(!D * !GN * !SN)	0.00001	0.00002	0.00002
	(!D * !GN * !SN)	-0.00001	-0.00001	-0.00001
	(!D * !GN * !SN)	-0.00029	-0.00028	-0.00027

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX2H7R	(D * GN * RN)	0.00005	0.00019	0.00071
	(D * GN * RN)	0.00004	0.00005	0.00006
	(D * GN * RN)	-0.00003	-0.00002	-0.00002
	(D * GN * RN)	0.00068	0.00082	0.00134
	(D * !GN * RN)	0.00005	0.00019	0.00072
	(D * !GN * RN)	0.00005	0.00005	0.00006
	(D * !GN * RN)	-0.00003	-0.00002	-0.00002
	(D * !GN * RN)	0.00068	0.00082	0.00134
	(!D * GN * RN)	0.00004	0.00019	0.00070
	(!D * GN * RN)	0.00004	0.00005	0.00005
	(!D * GN * RN)	-0.00003	-0.00003	-0.00002
	(!D * GN * RN)	0.00067	0.00082	0.00134

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
LATLSRX2H7R	(D * GN * RN)	0.00081	0.00096	0.00151
	(D * GN * RN)	-0.00006	-0.00005	-0.00004
	(D * GN * RN)	0.00002	0.00003	0.00003
	(D * GN * RN)	0.00017	0.00033	0.00088
	(D * !GN * RN)	0.00080	0.00096	0.00150
	(D * !GN * RN)	-0.00006	-0.00005	-0.00005
	(D * !GN * RN)	0.00002	0.00002	0.00003
	(D * !GN * RN)	0.00017	0.00032	0.00088
	(!D * GN * RN)	0.00082	0.00097	0.00151
	(!D * GN * RN)	-0.00005	-0.00004	-0.00004
	(!D * GN * RN)	0.00002	0.00003	0.00003
	(!D * GN * RN)	0.00017	0.00033	0.00088

LATLSX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch
Q = !SN ? 1 : !EN ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	SN	Q	QN
0	x	0	1	0
0	0	1	0	1
x	1	1	IQ	IQN
1	0	x	1	0
1	1	0	1	0

Footprint

Cell Name	Area
LATLSX0P5H7R	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	SN	Q	QN
LATLSX0P5H7R	0.00104	0.00084	0.00087	0.05951	0.05941

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSX0P5H7R	0.00000	0.94237	1.18299

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX0P5H7R	D->Q (RR)	-	0.05626	0.21397	0.59060
	GN->Q (FR)	SN	0.07745	0.23688	0.61518
	SN->Q (FR)	-	0.06801	0.22148	0.59013

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX0P5H7R	D->Q (FF)	-	0.08543	0.23835	0.58667
	GN->Q (FF)	SN	0.09890	0.24247	0.54890
	SN->Q (RF)	-	0.10594	0.23914	0.51899

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX0P5H7R	D->QN (FR)	-	0.12557	0.28218	0.67417
	GN->QN (FR)	SN	0.13905	0.28739	0.65176
	SN->QN (RR)	-	0.14608	0.28383	0.62106

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX0P5H7R	D->QN (RF)	-	0.08846	0.21297	0.50630
	GN->QN (FF)	SN	0.11035	0.23683	0.53871
	SN->QN (FF)	-	0.09806	0.22167	0.51657

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX0P5H7R	hold	GN (R)	-0.09184	-0.04239	-0.00917
	setup	GN (R)	0.02998	0.07346	0.13369

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX0P5H7R	hold	GN (R)	-0.15827	-0.05392	0.01924
	setup	GN (R)	0.02239	0.08440	0.20070

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLSX0P5H7R	-	0.9851

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX0P5H7R	recovery	GN (R)	0.03532	0.08472	0.14967
	removal	GN (R)	-0.12019	-0.05955	-0.00478

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATLSX0P5H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX0P5H7R	D	-	0.00112	0.00121	0.00141
	D	-	0.00004	0.00005	0.00006
	D	-	-0.00006	-0.00005	-0.00004
	D	-	0.00159	0.00168	0.00188
	GN	SN	0.00198	0.00210	0.00239
	GN	SN	0.00000	0.00001	0.00003
	GN	SN	-0.00003	-0.00002	-0.00001
	GN	SN	0.00174	0.00185	0.00216
	SN	-	0.00188	0.00200	0.00225
	SN	-	0.00004	0.00006	0.00008
	SN	-	-0.00005	-0.00003	-0.00001
	SN	-	0.00177	0.00188	0.00214

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX0P5H7R	D	-	0.00172	0.00180	0.00205
	D	-	-0.00006	-0.00005	-0.00004
	D	-	0.00004	0.00005	0.00006
	D	-	0.00125	0.00134	0.00159
	GN	SN	0.00228	0.00239	0.00271
	GN	SN	-0.00003	-0.00001	-0.00000
	GN	SN	0.00001	0.00002	0.00003
	GN	SN	0.00194	0.00205	0.00237
	SN	-	0.00185	0.00193	0.00217
	SN	-	-0.00008	-0.00006	-0.00004
	SN	-	0.00003	0.00004	0.00005
	SN	-	0.00194	0.00203	0.00228

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX0P5H7R	D	-	0.00171	0.00180	0.00205
	D	-	-0.00005	-0.00005	-0.00004
	D	-	0.00004	0.00005	0.00006
	D	-	0.00125	0.00134	0.00159
	GN	SN	0.00228	0.00239	0.00270
	GN	SN	-0.00002	-0.00001	-0.00001
	GN	SN	0.00002	0.00002	0.00003
	GN	SN	0.00193	0.00205	0.00236
	SN	-	0.00184	0.00193	0.00217
	SN	-	-0.00006	-0.00006	-0.00006
	SN	-	0.00003	0.00004	0.00005
	SN	-	0.00194	0.00203	0.00228

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX0P5H7R	D	-	0.00113	0.00121	0.00141
	D	-	0.00004	0.00005	0.00005
	D	-	-0.00005	-0.00005	-0.00004
	D	-	0.00159	0.00168	0.00188
	GN	SN	0.00199	0.00210	0.00237
	GN	SN	0.00001	0.00001	0.00002
	GN	SN	-0.00003	-0.00002	-0.00002
	GN	SN	0.00174	0.00185	0.00212
	SN	-	0.00190	0.00200	0.00225
	SN	-	0.00006	0.00006	0.00006
	SN	-	-0.00003	-0.00003	-0.00002
	SN	-	0.00178	0.00188	0.00213

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7R	0.00001	0.00015	0.00065
	0.00007	0.00007	0.00008
	-0.00005	-0.00004	-0.00003
	0.00087	0.00100	0.00150

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7R	0.00073	0.00088	0.00139
	-0.00008	-0.00007	-0.00007
	0.00003	0.00004	0.00005
	-0.00012	0.00003	0.00054

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7R	0.00091	0.00103	0.00149
	0.00001	0.00001	0.00001
	-0.00000	-0.00000	0.00000
	0.00151	0.00163	0.00209

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7R	0.00171	0.00185	0.00235
	-0.00001	-0.00000	0.00000
	0.00000	0.00000	0.00000
	0.00111	0.00126	0.00175

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7R	0.00010	0.00022	0.00067
	0.00005	0.00006	0.00006
	-0.00003	-0.00002	-0.00002
	0.00090	0.00102	0.00147

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX0P5H7R	0.00119	0.00133	0.00180
	-0.00006	-0.00006	-0.00005
	0.00002	0.00003	0.00003
	0.00041	0.00053	0.00102

LATLSX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch
Q = !SN ? 1 : !EN ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	SN	Q	QN
0	x	0	1	0
0	0	1	0	1
x	1	1	IQ	IQN
1	0	x	1	0
1	1	0	1	0

Footprint

Cell Name	Area
LATLSX1H7R	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	SN	Q	QN
LATLSX1H7R	0.00104	0.00084	0.00087	0.07013	0.07023

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSX1H7R	0.00000	0.98234	1.22293

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX1H7R	D->Q (RR)	-	0.05550	0.21384	0.59108
	GN->Q (FR)	SN	0.07673	0.23655	0.61350
	SN->Q (FR)	-	0.06714	0.22079	0.58884

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX1H7R	D->Q (FF)	-	0.08482	0.23963	0.59070
	GN->Q (FF)	SN	0.09824	0.24356	0.55217
	SN->Q (RF)	-	0.10534	0.24026	0.52224

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX1H7R	D->QN (FR)	-	0.12736	0.28420	0.67690
	GN->QN (FR)	SN	0.14077	0.28910	0.65353
	SN->QN (RR)	-	0.14788	0.28559	0.62289

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX1H7R	D->QN (RF)	-	0.08949	0.21543	0.51205
	GN->QN (FF)	SN	0.11144	0.23905	0.54330
	SN->QN (FF)	-	0.09868	0.22347	0.52089

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX1H7R	hold	GN (R)	-0.09584	-0.04243	-0.00636
	setup	GN (R)	0.03135	0.07473	0.13631

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX1H7R	hold	GN (R)	-0.15881	-0.05463	0.01867
	setup	GN (R)	0.02569	0.08693	0.20747

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLSX1H7R	-	0.9851

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX1H7R	recovery	GN (R)	0.03787	0.08717	0.14845
	removal	GN (R)	-0.12289	-0.05991	-0.00538

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATLSX1H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX1H7R	D	-	0.00118	0.00128	0.00149
	D	-	0.00004	0.00005	0.00006
	D	-	-0.00005	-0.00005	-0.00004
	D	-	0.00164	0.00174	0.00195
	GN	SN	0.00204	0.00216	0.00243
	GN	SN	0.00000	0.00001	0.00003
	GN	SN	-0.00004	-0.00002	-0.00001
	GN	SN	0.00180	0.00191	0.00219
	SN	-	0.00194	0.00206	0.00231
	SN	-	0.00004	0.00006	0.00008
	SN	-	-0.00003	-0.00003	-0.00002
	SN	-	0.00183	0.00194	0.00220

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX1H7R	D	-	0.00177	0.00186	0.00212
	D	-	-0.00006	-0.00005	-0.00004
	D	-	0.00004	0.00005	0.00006
	D	-	0.00130	0.00139	0.00166
	GN	SN	0.00233	0.00245	0.00276
	GN	SN	-0.00003	-0.00001	-0.00000
	GN	SN	0.00001	0.00002	0.00004
	GN	SN	0.00199	0.00210	0.00242
	SN	-	0.00190	0.00199	0.00223
	SN	-	-0.00008	-0.00006	-0.00004
	SN	-	0.00003	0.00004	0.00005
	SN	-	0.00199	0.00208	0.00233

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX1H7R	D	-	0.00177	0.00186	0.00212
	D	-	-0.00005	-0.00005	-0.00004
	D	-	0.00004	0.00005	0.00006
	D	-	0.00131	0.00139	0.00166
	GN	SN	0.00233	0.00245	0.00276
	GN	SN	-0.00002	-0.00001	-0.00000
	GN	SN	0.00001	0.00002	0.00003
	GN	SN	0.00199	0.00210	0.00242
	SN	-	0.00190	0.00199	0.00223
	SN	-	-0.00008	-0.00006	-0.00005
	SN	-	0.00002	0.00004	0.00004
	SN	-	0.00200	0.00209	0.00234

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX1H7R	D	-	0.00118	0.00128	0.00149
	D	-	0.00004	0.00005	0.00006
	D	-	-0.00005	-0.00005	-0.00004
	D	-	0.00165	0.00174	0.00195
	GN	SN	0.00204	0.00216	0.00243
	GN	SN	0.00000	0.00001	0.00002
	GN	SN	-0.00003	-0.00002	-0.00001
	GN	SN	0.00180	0.00191	0.00219
	SN	-	0.00195	0.00206	0.00231
	SN	-	0.00005	0.00006	0.00008
	SN	-	-0.00004	-0.00003	-0.00000
	SN	-	0.00183	0.00194	0.00220

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7R	0.00001	0.00015	0.00064
	0.00007	0.00007	0.00008
	-0.00005	-0.00004	-0.00004
	0.00087	0.00100	0.00150

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7R	0.00073	0.00088	0.00139
	-0.00008	-0.00007	-0.00007
	0.00004	0.00004	0.00005
	-0.00012	0.00003	0.00054

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7R	0.00091	0.00103	0.00149
	0.00000	0.00001	0.00001
	-0.00000	-0.00000	0.00000
	0.00151	0.00163	0.00209

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7R	0.00171	0.00185	0.00235
	-0.00001	-0.00000	0.00000
	0.00000	0.00000	0.00000
	0.00112	0.00126	0.00176

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7R	0.00010	0.00022	0.00067
	0.00005	0.00006	0.00007
	-0.00003	-0.00003	-0.00002
	0.00090	0.00102	0.00147

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX1H7R	0.00120	0.00133	0.00180
	-0.00006	-0.00006	-0.00005
	0.00002	0.00003	0.00003
	0.00040	0.00053	0.00102

LATLSX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Latch
Q = !SN ? 1 : !EN ? D : pre_Q
QN = !Q

Truth Table

INPUT			OUTPUT	
D	GN	SN	Q	QN
0	x	0	1	0
0	0	1	0	1
x	1	1	IQ	IQN
1	0	x	1	0
1	1	0	1	0

Footprint

Cell Name	Area
LATLSX2H7R	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)	
	D	GN	SN	Q	QN
LATLSX2H7R	0.00104	0.00085	0.00087	0.08096	0.08087

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLSX2H7R	0.00000	1.04342	1.28996

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX2H7R	D->Q (RR)	-	0.05488	0.21430	0.59306
	GN->Q (FR)	SN	0.07668	0.23794	0.61792
	SN->Q (FR)	-	0.06637	0.22083	0.59004

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX2H7R	D->Q (FF)	-	0.08415	0.24065	0.59431
	GN->Q (FF)	SN	0.09735	0.24447	0.55550
	SN->Q (RF)	-	0.10469	0.24119	0.52546

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX2H7R	D->QN (FR)	-	0.12867	0.28576	0.67904
	GN->QN (FR)	SN	0.14194	0.29052	0.65529
	SN->QN (RR)	-	0.14921	0.28699	0.62431

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLSX2H7R	D->QN (RF)	-	0.09034	0.21710	0.51541
	GN->QN (FF)	SN	0.11278	0.24152	0.54818
	SN->QN (FF)	-	0.09916	0.22467	0.52367

Constraint Information

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX2H7R	hold	GN (R)	-0.09636	-0.04258	-0.00626
	setup	GN (R)	0.03135	0.07485	0.13856

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX2H7R	hold	GN (R)	-0.16096	-0.05495	0.02145
	setup	GN (R)	0.02440	0.08868	0.20733

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLSX2H7R	-	0.9851

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLSX2H7R	recovery	GN (R)	0.03741	0.08922	0.15293
	removal	GN (R)	-0.12342	-0.06030	-0.00493

Min Pulse Width (ns) for SN:

Cell Name	High	Low
LATLSX2H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX2H7R	D	-	0.00122	0.00133	0.00155
	D	-	0.00004	0.00005	0.00006
	D	-	-0.00005	-0.00005	-0.00004
	D	-	0.00169	0.00179	0.00201
	GN	SN	0.00210	0.00223	0.00254
	GN	SN	0.00000	0.00002	0.00003
	GN	SN	-0.00004	-0.00002	-0.00001
	GN	SN	0.00186	0.00198	0.00231
	SN	-	0.00198	0.00211	0.00237
	SN	-	0.00004	0.00006	0.00009
	SN	-	-0.00003	-0.00003	0.00000
	SN	-	0.00187	0.00200	0.00226

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX2H7R	D	-	0.00182	0.00192	0.00220
	D	-	-0.00006	-0.00005	-0.00004
	D	-	0.00004	0.00005	0.00006
	D	-	0.00136	0.00145	0.00173
	GN	SN	0.00240	0.00252	0.00284
	GN	SN	-0.00002	-0.00002	-0.00000
	GN	SN	0.00001	0.00002	0.00004
	GN	SN	0.00205	0.00218	0.00251
	SN	-	0.00195	0.00205	0.00229
	SN	-	-0.00008	-0.00006	-0.00004
	SN	-	0.00002	0.00004	0.00005
	SN	-	0.00204	0.00214	0.00239

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX2H7R	D	-	0.00183	0.00192	0.00220
	D	-	-0.00006	-0.00005	-0.00004
	D	-	0.00004	0.00005	0.00006
	D	-	0.00136	0.00145	0.00173
	GN	SN	0.00240	0.00252	0.00284
	GN	SN	-0.00002	-0.00002	-0.00001
	GN	SN	0.00002	0.00002	0.00003
	GN	SN	0.00205	0.00218	0.00250
	SN	-	0.00196	0.00205	0.00229
	SN	-	-0.00006	-0.00006	-0.00006
	SN	-	0.00002	0.00004	0.00005
	SN	-	0.00205	0.00214	0.00239

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLSX2H7R	D	-	0.00122	0.00133	0.00154
	D	-	0.00004	0.00005	0.00006
	D	-	-0.00005	-0.00005	-0.00004
	D	-	0.00169	0.00179	0.00201
	GN	SN	0.00210	0.00223	0.00252
	GN	SN	0.00001	0.00002	0.00002
	GN	SN	-0.00003	-0.00002	-0.00002
	GN	SN	0.00186	0.00198	0.00228
	SN	-	0.00199	0.00211	0.00238
	SN	-	0.00006	0.00006	0.00006
	SN	-	-0.00005	-0.00003	-0.00001
	SN	-	0.00188	0.00200	0.00227

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7R	0.00001	0.00015	0.00064
	0.00007	0.00007	0.00007
	-0.00005	-0.00004	-0.00003
	0.00087	0.00100	0.00150

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7R	0.00073	0.00088	0.00140
	-0.00007	-0.00007	-0.00007
	0.00003	0.00004	0.00005
	-0.00012	0.00003	0.00054

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7R	0.00096	0.00109	0.00155
	-0.00000	0.00000	0.00000
	-0.00000	0.00000	0.00001
	0.00156	0.00169	0.00215

Passive power(pJ) for GN falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7R	0.00175	0.00189	0.00240
	0.00000	0.00000	0.00001
	-0.00000	-0.00000	0.00000
	0.00116	0.00130	0.00181

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7R	0.00010	0.00022	0.00067
	0.00006	0.00006	0.00006
	-0.00003	-0.00003	-0.00002
	0.00090	0.00102	0.00147

Passive power(pJ) for SN falling :

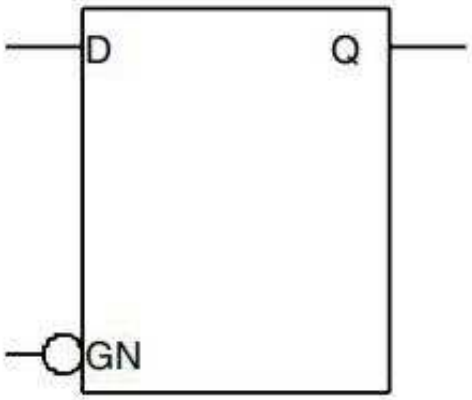
Cell Name	Power(pJ)		
	min	avg	max
LATLSX2H7R	0.00120	0.00133	0.00181
	-0.00006	-0.00006	-0.00006
	0.00002	0.00003	0.00003
	0.00040	0.00053	0.00102

LATLX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch
Q = !EN ? D : pre_Q



Truth Table

INPUT		OUTPUT	
D	GN	Q	QN
0	0	0	1
x	1	IQ	IQN
1	0	1	0

Footprint

Cell Name	Area
LATLX0P5H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	GN	Q	QN
LATLX0P5H7R	0.00071	0.00092	0.05956	0.05952

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLX0P5H7R	0.00000	0.70593	0.80860

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX0P5H7R	D->Q (RR)	!GN	0.05223	0.20457	0.57335
	GN->Q (FR)	-	0.07557	0.23258	0.60962

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX0P5H7R	D->Q (FF)	!GN	0.06272	0.20028	0.52598
	GN->Q (FF)	-	0.09514	0.22669	0.52305

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX0P5H7R	D->QN (FR)	!GN	0.09061	0.24180	0.62167
	GN->QN (FR)	-	0.12323	0.26955	0.63155

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX0P5H7R	D->QN (RF)	!GN	0.07685	0.19726	0.48564
	GN->QN (FF)	-	0.10050	0.22605	0.52888

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX0P5H7R	hold	GN (R)	-0.09024	-0.04025	-0.01007
	setup	GN (R)	0.02676	0.06660	0.12034

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX0P5H7R	hold	GN (R)	-0.12833	-0.02748	0.03683
	setup	GN (R)	-0.02278	0.04729	0.15659

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLX0P5H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX0P5H7R	D	!GN	0.00097	0.00103	0.00116
	D	!GN	0.00002	0.00004	0.00006
	D	!GN	-0.00004	-0.00003	-0.00001
	D	!GN	0.00130	0.00136	0.00149
	GN	-	0.00184	0.00195	0.00224
	GN	-	0.00002	0.00004	0.00006
	GN	-	-0.00003	-0.00003	-0.00002
	GN	-	0.00159	0.00170	0.00201

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX0P5H7R	D	!GN	0.00129	0.00135	0.00148
	D	!GN	-0.00005	-0.00004	-0.00002
	D	!GN	0.00002	0.00003	0.00005
	D	!GN	0.00094	0.00102	0.00116
	GN	-	0.00195	0.00205	0.00233
	GN	-	-0.00003	-0.00003	-0.00002
	GN	-	0.00002	0.00003	0.00005
	GN	-	0.00156	0.00165	0.00193

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX0P5H7R	D	!GN	0.00127	0.00135	0.00149
	D	!GN	-0.00004	-0.00003	-0.00002
	D	!GN	0.00001	0.00003	0.00004
	D	!GN	0.00094	0.00102	0.00118
	GN	-	0.00196	0.00205	0.00233
	GN	-	-0.00004	-0.00003	-0.00002
	GN	-	0.00002	0.00003	0.00005
	GN	-	0.00154	0.00165	0.00192

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX0P5H7R	D	!GN	0.00098	0.00104	0.00116
	D	!GN	0.00002	0.00003	0.00004
	D	!GN	-0.00004	-0.00003	-0.00001
	D	!GN	0.00130	0.00136	0.00150
	GN	-	0.00185	0.00195	0.00223
	GN	-	0.00004	0.00004	0.00004
	GN	-	-0.00003	-0.00003	-0.00002
	GN	-	0.00160	0.00170	0.00199

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX0P5H7R	-0.00017	-0.00016	-0.00015
	-0.00001	-0.00001	-0.00001
	0.00001	0.00001	0.00001
	0.00025	0.00025	0.00026

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLX0P5H7R	0.00017	0.00018	0.00018
	0.00001	0.00001	0.00001
	-0.00001	-0.00001	-0.00001
	-0.00025	-0.00024	-0.00024

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX0P5H7R	0.00094	0.00107	0.00154
	-0.00001	-0.00001	-0.00000
	-0.00001	-0.00000	0.00000
	0.00163	0.00176	0.00223

Passive power(pJ) for GN falling :

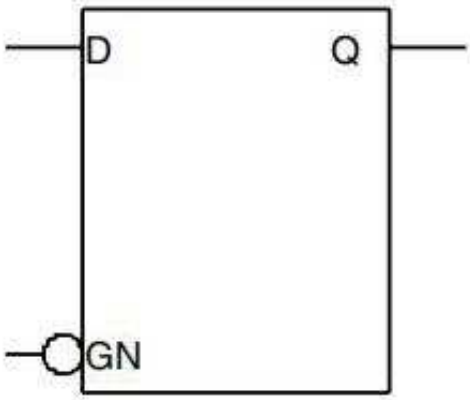
Cell Name	Power(pJ)		
	min	avg	max
LATLX0P5H7R	0.00164	0.00178	0.00228
	0.00001	0.00001	0.00001
	0.00000	0.00000	0.00001
	0.00099	0.00113	0.00163

LATLX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch
Q = !EN ? D : pre_Q



Truth Table

INPUT		OUTPUT	
D	GN	Q	QN
0	0	0	1
x	1	IQ	IQN
1	0	1	0

Footprint

Cell Name	Area
LATLX1H7R	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	GN	Q	QN
LATLX1H7R	0.00070	0.00092	0.07045	0.07068

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLX1H7R	0.00000	0.74591	0.84853

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX1H7R	D->Q (RR)	!GN	0.05391	0.20788	0.57938
	GN->Q (FR)	-	0.07746	0.23531	0.61320

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX1H7R	D->Q (FF)	!GN	0.06500	0.20529	0.53596
	GN->Q (FF)	-	0.09699	0.23053	0.52974

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX1H7R	D->QN (FR)	!GN	0.09390	0.24615	0.62934
	GN->QN (FR)	-	0.12612	0.27267	0.63570

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX1H7R	D->QN (RF)	!GN	0.07930	0.20199	0.49639
	GN->QN (FF)	-	0.10315	0.23016	0.53667

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX1H7R	hold	GN (R)	-0.09170	-0.04295	-0.01293
	setup	GN (R)	0.02701	0.06983	0.12737

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX1H7R	hold	GN (R)	-0.13180	-0.03062	0.03533
	setup	GN (R)	-0.02278	0.05225	0.16545

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLX1H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX1H7R	D	!GN	0.00105	0.00112	0.00124
	D	!GN	0.00002	0.00004	0.00006
	D	!GN	-0.00005	-0.00003	-0.00001
	D	!GN	0.00137	0.00144	0.00157
	GN	-	0.00191	0.00202	0.00231
	GN	-	0.00002	0.00004	0.00006
	GN	-	-0.00003	-0.00003	-0.00002
	GN	-	0.00167	0.00178	0.00207

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX1H7R	D	!GN	0.00137	0.00143	0.00157
	D	!GN	-0.00005	-0.00004	-0.00002
	D	!GN	0.00002	0.00003	0.00005
	D	!GN	0.00104	0.00111	0.00125
	GN	-	0.00203	0.00214	0.00242
	GN	-	-0.00004	-0.00003	-0.00002
	GN	-	0.00002	0.00003	0.00006
	GN	-	0.00162	0.00173	0.00203

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX1H7R	D	!GN	0.00137	0.00143	0.00157
	D	!GN	-0.00004	-0.00003	-0.00002
	D	!GN	0.00003	0.00003	0.00003
	D	!GN	0.00104	0.00111	0.00125
	GN	-	0.00203	0.00214	0.00241
	GN	-	-0.00004	-0.00003	-0.00002
	GN	-	0.00003	0.00003	0.00003
	GN	-	0.00163	0.00173	0.00201

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX1H7R	D	!GN	0.00106	0.00112	0.00125
	D	!GN	0.00002	0.00003	0.00004
	D	!GN	-0.00003	-0.00003	-0.00003
	D	!GN	0.00138	0.00144	0.00158
	GN	-	0.00192	0.00202	0.00231
	GN	-	0.00004	0.00004	0.00006
	GN	-	-0.00003	-0.00003	-0.00002
	GN	-	0.00167	0.00178	0.00206

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX1H7R	-0.00017	-0.00017	-0.00015
	-0.00001	-0.00001	-0.00001
	0.00001	0.00001	0.00001
	0.00024	0.00025	0.00026

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLX1H7R	0.00018	0.00018	0.00018
	0.00001	0.00001	0.00001
	-0.00001	-0.00001	-0.00001
	-0.00024	-0.00024	-0.00023

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX1H7R	0.00094	0.00107	0.00154
	-0.00001	-0.00000	0.00000
	-0.00000	-0.00000	0.00000
	0.00162	0.00175	0.00222

Passive power(pJ) for GN falling :

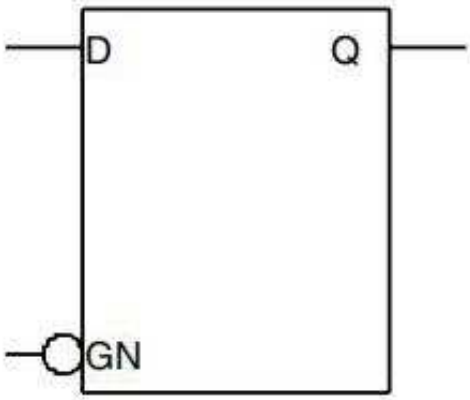
Cell Name	Power(pJ)		
	min	avg	max
LATLX1H7R	0.00163	0.00177	0.00228
	0.00001	0.00001	0.00002
	0.00000	0.00000	0.00000
	0.00099	0.00113	0.00163

LATLX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch
Q = !EN ? D : pre_Q



Truth Table

INPUT		OUTPUT	
D	GN	Q	QN
0	0	0	1
x	1	IQ	IQN
1	0	1	0

Footprint

Cell Name	Area
LATLX2H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	GN	Q	QN
LATLX2H7R	0.00069	0.00093	0.08113	0.08142

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLX2H7R	0.00000	0.78550	0.88809

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX2H7R	D->Q (RR)	!GN	0.05344	0.20787	0.58060
	GN->Q (FR)	-	0.07743	0.23579	0.61429

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX2H7R	D->Q (FF)	!GN	0.06447	0.20570	0.53829
	GN->Q (FF)	-	0.09633	0.23082	0.53168

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX2H7R	D->QN (FR)	!GN	0.09468	0.24693	0.63063
	GN->QN (FR)	-	0.12673	0.27317	0.63622

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX2H7R	D->QN (RF)	!GN	0.07997	0.20324	0.49901
	GN->QN (FF)	-	0.10431	0.23195	0.54016

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX2H7R	hold	GN (R)	-0.09170	-0.04311	-0.01293
	setup	GN (R)	0.02910	0.07074	0.12953

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX2H7R	hold	GN (R)	-0.13209	-0.03063	0.03759
	setup	GN (R)	-0.02254	0.05402	0.16825

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLX2H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX2H7R	D	!GN	0.00112	0.00120	0.00135
	D	!GN	0.00001	0.00003	0.00006
	D	!GN	-0.00004	-0.00003	-0.00002
	D	!GN	0.00144	0.00152	0.00168
	GN	-	0.00201	0.00211	0.00240
	GN	-	0.00002	0.00004	0.00004
	GN	-	-0.00004	-0.00003	-0.00001
	GN	-	0.00175	0.00186	0.00217

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX2H7R	D	!GN	0.00138	0.00144	0.00159
	D	!GN	-0.00004	-0.00003	-0.00001
	D	!GN	0.00002	0.00003	0.00005
	D	!GN	0.00104	0.00112	0.00127
	GN	-	0.00206	0.00216	0.00245
	GN	-	-0.00003	-0.00003	-0.00002
	GN	-	0.00001	0.00003	0.00005
	GN	-	0.00164	0.00176	0.00206

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX2H7R	D	!GN	0.00137	0.00144	0.00159
	D	!GN	-0.00004	-0.00003	-0.00002
	D	!GN	0.00002	0.00003	0.00005
	D	!GN	0.00103	0.00112	0.00127
	GN	-	0.00204	0.00216	0.00244
	GN	-	-0.00004	-0.00003	-0.00000
	GN	-	0.00001	0.00003	0.00004
	GN	-	0.00164	0.00176	0.00205

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX2H7R	D	!GN	0.00113	0.00120	0.00134
	D	!GN	0.00002	0.00004	0.00006
	D	!GN	-0.00004	-0.00003	-0.00002
	D	!GN	0.00145	0.00152	0.00166
	GN	-	0.00199	0.00211	0.00239
	GN	-	0.00004	0.00004	0.00006
	GN	-	-0.00003	-0.00003	-0.00001
	GN	-	0.00175	0.00186	0.00215

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX2H7R	-0.00018	-0.00017	-0.00016
	-0.00001	-0.00001	-0.00001
	0.00001	0.00001	0.00001
	0.00023	0.00023	0.00024

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLX2H7R	0.00018	0.00018	0.00018
	0.00001	0.00001	0.00001
	-0.00001	-0.00001	-0.00001
	-0.00023	-0.00022	-0.00022

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX2H7R	0.00097	0.00110	0.00156
	-0.00001	-0.00000	0.00001
	-0.00000	-0.00000	0.00000
	0.00163	0.00177	0.00223

Passive power(pJ) for GN falling :

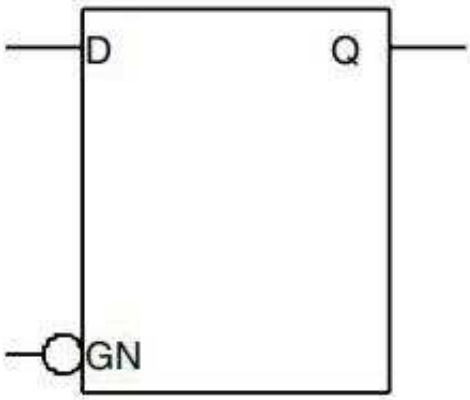
Cell Name	Power(pJ)		
	min	avg	max
LATLX2H7R	0.00166	0.00180	0.00230
	0.00001	0.00001	0.00001
	0.00000	0.00000	0.00000
	0.00103	0.00117	0.00167

LATLX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch
Q = !EN ? D : pre_Q



Truth Table

INPUT		OUTPUT	
D	GN	Q	QN
0	0	0	1
x	1	IQ	IQN
1	0	1	0

Footprint

Cell Name	Area
LATLX3H7R	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	GN	Q	QN
LATLX3H7R	0.00078	0.00092	0.12616	0.12661

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLX3H7R	0.00000	1.00072	1.12519

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX3H7R	D->Q (RR)	!GN	0.05125	0.20775	0.58273
	GN->Q (FR)	-	0.07624	0.23706	0.61865

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX3H7R	D->Q (FF)	!GN	0.06230	0.20649	0.54265
	GN->Q (FF)	-	0.09322	0.23081	0.53485

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX3H7R	D->QN (FR)	!GN	0.09975	0.25316	0.63979
	GN->QN (FR)	-	0.13081	0.27816	0.64351

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX3H7R	D->QN (RF)	!GN	0.08503	0.21050	0.51021
	GN->QN (FF)	-	0.11036	0.24015	0.55196

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX3H7R	hold	GN (R)	-0.09479	-0.04355	-0.01136
	setup	GN (R)	0.03169	0.07419	0.13831

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX3H7R	hold	GN (R)	-0.13209	-0.02983	0.04034
	setup	GN (R)	-0.02202	0.05804	0.17647

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLX3H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX3H7R	D	!GN	0.00136	0.00144	0.00165
	D	!GN	0.00002	0.00005	0.00007
	D	!GN	-0.00005	-0.00004	-0.00002
	D	!GN	0.00174	0.00181	0.00202
	GN	-	0.00226	0.00239	0.00269
	GN	-	0.00003	0.00005	0.00007
	GN	-	-0.00005	-0.00003	-0.00001
	GN	-	0.00205	0.00217	0.00248

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX3H7R	D	!GN	0.00170	0.00178	0.00201
	D	!GN	-0.00005	-0.00004	-0.00002
	D	!GN	0.00002	0.00004	0.00006
	D	!GN	0.00132	0.00141	0.00164
	GN	-	0.00239	0.00250	0.00279
	GN	-	-0.00004	-0.00003	0.00000
	GN	-	0.00003	0.00004	0.00007
	GN	-	0.00197	0.00209	0.00238

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX3H7R	D	!GN	0.00170	0.00178	0.00201
	D	!GN	-0.00005	-0.00004	-0.00002
	D	!GN	0.00001	0.00004	0.00007
	D	!GN	0.00132	0.00141	0.00164
	GN	-	0.00239	0.00250	0.00282
	GN	-	-0.00004	-0.00003	-0.00002
	GN	-	0.00004	0.00004	0.00008
	GN	-	0.00195	0.00209	0.00243

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX3H7R	D	!GN	0.00136	0.00144	0.00165
	D	!GN	0.00004	0.00005	0.00006
	D	!GN	-0.00004	-0.00004	-0.00001
	D	!GN	0.00175	0.00181	0.00202
	GN	-	0.00229	0.00239	0.00269
	GN	-	0.00003	0.00005	0.00006
	GN	-	-0.00004	-0.00003	-0.00003
	GN	-	0.00206	0.00217	0.00247

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX3H7R	-0.00019	-0.00018	-0.00017
	-0.00002	-0.00002	-0.00001
	0.00001	0.00001	0.00001
	0.00026	0.00026	0.00027

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLX3H7R	0.00020	0.00020	0.00020
	0.00001	0.00002	0.00002
	-0.00001	-0.00001	-0.00001
	-0.00026	-0.00025	-0.00024

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX3H7R	0.00100	0.00113	0.00160
	-0.00002	-0.00001	-0.00000
	-0.00000	-0.00000	0.00000
	0.00167	0.00180	0.00227

Passive power(pJ) for GN falling :

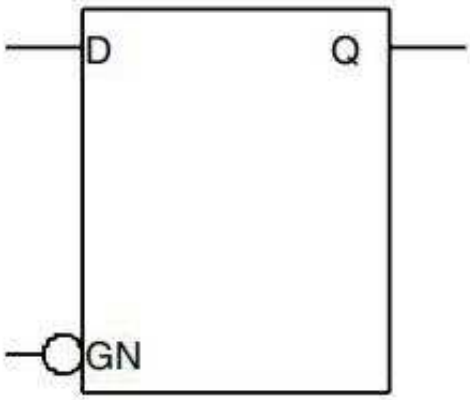
Cell Name	Power(pJ)		
	min	avg	max
LATLX3H7R	0.00174	0.00188	0.00239
	0.00001	0.00002	0.00002
	0.00000	0.00000	0.00000
	0.00111	0.00126	0.00177

LATLX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Low Enable Latch
Q = !EN ? D : pre_Q



Truth Table

INPUT		OUTPUT	
D	GN	Q	QN
0	0	0	1
x	1	IQ	IQN
1	0	1	0

Footprint

Cell Name	Area
LATLX4H7R	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)	
	D	GN	Q	QN
LATLX4H7R	0.00078	0.00092	0.16185	0.16200

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
LATLX4H7R	0.00000	1.13776	1.26211

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX4H7R	D->Q (RR)	!GN	0.05158	0.20943	0.58630
	GN->Q (FR)	-	0.07617	0.23770	0.61982

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX4H7R	D->Q (FF)	!GN	0.06301	0.20834	0.54540
	GN->Q (FF)	-	0.09363	0.23175	0.53531

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX4H7R	D->QN (FR)	!GN	0.10530	0.25864	0.64603
	GN->QN (FR)	-	0.13606	0.28247	0.64580

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
LATLX4H7R	D->QN (RF)	!GN	0.08945	0.21531	0.51517
	GN->QN (FF)	-	0.11434	0.24374	0.55402

Constraint Information

Constraints(ns) for D rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX4H7R	hold	GN (R)	-0.09747	-0.04520	-0.01266
	setup	GN (R)	0.03318	0.07789	0.14535

Constraints(ns) for D falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
LATLX4H7R	hold	GN (R)	-0.13617	-0.03187	0.03895
	setup	GN (R)	-0.01643	0.06404	0.18382

Min Pulse Width (ns) for GN:

Cell Name	High	Low
LATLX4H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX4H7R	D	!GN	0.00154	0.00163	0.00189
	D	!GN	0.00000	0.00004	0.00007
	D	!GN	-0.00005	-0.00004	-0.00000
	D	!GN	0.00190	0.00200	0.00226
	GN	-	0.00243	0.00257	0.00290
	GN	-	0.00004	0.00005	0.00008
	GN	-	-0.00005	-0.00003	-0.00001
	GN	-	0.00223	0.00235	0.00269

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX4H7R	D	!GN	0.00186	0.00194	0.00223
	D	!GN	-0.00006	-0.00004	-0.00000
	D	!GN	0.00002	0.00004	0.00006
	D	!GN	0.00149	0.00157	0.00186
	GN	-	0.00253	0.00265	0.00296
	GN	-	-0.00004	-0.00003	-0.00001
	GN	-	0.00001	0.00004	0.00008
	GN	-	0.00211	0.00224	0.00257

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX4H7R	D	!GN	0.00184	0.00194	0.00223
	D	!GN	-0.00005	-0.00004	-0.00001
	D	!GN	0.00004	0.00004	0.00005
	D	!GN	0.00147	0.00157	0.00186
	GN	-	0.00253	0.00265	0.00297
	GN	-	-0.00006	-0.00003	-0.00003
	GN	-	0.00000	0.00004	0.00007
	GN	-	0.00209	0.00224	0.00256

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
LATLX4H7R	D	!GN	0.00154	0.00163	0.00189
	D	!GN	0.00002	0.00004	0.00008
	D	!GN	-0.00005	-0.00004	-0.00002
	D	!GN	0.00191	0.00200	0.00226
	GN	-	0.00244	0.00257	0.00288
	GN	-	0.00005	0.00005	0.00009
	GN	-	-0.00004	-0.00003	0.00000
	GN	-	0.00222	0.00234	0.00267

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX4H7R	-0.00020	-0.00019	-0.00017
	-0.00002	-0.00002	-0.00001
	0.00001	0.00001	0.00001
	0.00026	0.00026	0.00027

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
LATLX4H7R	0.00020	0.00020	0.00020
	0.00001	0.00002	0.00002
	-0.00001	-0.00001	-0.00001
	-0.00026	-0.00025	-0.00025

Passive power(pJ) for GN rising :

Cell Name	Power(pJ)		
	min	avg	max
LATLX4H7R	0.00098	0.00111	0.00159
	-0.00001	-0.00001	-0.00001
	0.00000	0.00000	0.00000
	0.00164	0.00178	0.00226

Passive power(pJ) for GN falling :

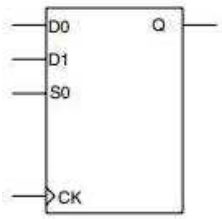
Cell Name	Power(pJ)		
	min	avg	max
LATLX4H7R	0.00172	0.00186	0.00237
	0.00002	0.00002	0.00002
	0.00000	0.00000	0.00000
	0.00109	0.00123	0.00175

MDFFQX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MDFFQ cell is a positive edge-triggered, static D-type flip-flop with a 2-to-1 data-select control (S0) for the data inputs (D1, D0). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D0	D1	S0	Q
R	0	0	x	0
R	0	1	0	0
R	x	1	1	1
R	1	x	0	1
R	1	0	1	0
x	x	x	x	IQ

Footprint

Cell Name	Area
MDFFQX0P5H7R	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	D0	D1	S0	Q
MDFFQX0P5H7R	0.00080	0.00070	0.00077	0.00187	0.05955

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MDFFQX0P5H7R	0.00000	1.07730	1.53683

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX0P5H7R	CK->Q (RR)	(D1 * !S0)	0.09887	0.24989	0.60578
	CK->Q (RR)	(D0 * S0)	0.09887	0.24990	0.60585
	CK->Q (RR)	(!D1 * !S0)	0.09887	0.24988	0.60529
	CK->Q (RR)	(!D0 * S0)	0.09889	0.24990	0.60585

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX0P5H7R	CK->Q (RF)	(D1 * !S0)	0.07551	0.20572	0.49813
	CK->Q (RF)	(D0 * S0)	0.07553	0.20573	0.49813
	CK->Q (RF)	(!D1 * !S0)	0.07551	0.20572	0.49813
	CK->Q (RF)	(!D0 * S0)	0.07553	0.20573	0.49813

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
MDFFQX0P5H7R	0.9851	0.9851

Constraints(ns) for D0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7R	**hold**	**CK (R)**	-0.12092	-0.06107	-0.02538
	setup	**CK (R)**	0.03160	0.07212	0.14120

Constraints(ns) for D0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7R	**hold**	**CK (R)**	-0.16948	-0.05044	0.04647
	setup	**CK (R)**	0.02359	0.08897	0.20252

Constraints(ns) for D1 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7R	**hold**	**CK (R)**	-0.12045	-0.06099	-0.02569
	setup	**CK (R)**	0.03409	0.07264	0.14491

Constraints(ns) for D1 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7R	**hold**	**CK (R)**	-0.16873	-0.05152	0.04415
	setup	**CK (R)**	0.02409	0.09033	0.20268

Constraints(ns) for S0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7R	hold	CK (R)	-0.09159	-0.03460	0.03555
	setup	CK (R)	0.03371	0.08242	0.14040

Constraints(ns) for S0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX0P5H7R	hold	CK (R)	-0.13930	-0.04094	0.05462
	setup	CK (R)	0.04773	0.09237	0.19201

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX0P5H7R	CK	(D1 * !S0)	0.00307	0.00321	0.00368
	CK	(D1 * !S0)	0.00004	0.00007	0.00007
	CK	(D1 * !S0)	-0.00005	-0.00004	-0.00000
	CK	(D1 * !S0)	0.00371	0.00386	0.00430
	CK	(D0 * S0)	0.00307	0.00322	0.00369
	CK	(D0 * S0)	0.00002	0.00007	0.00007
	CK	(D0 * S0)	-0.00005	-0.00004	-0.00004
	CK	(D0 * S0)	0.00372	0.00386	0.00431
	CK	(!D1 * !S0)	0.00305	0.00321	0.00367
	CK	(!D1 * !S0)	0.00007	0.00007	0.00010
	CK	(!D1 * !S0)	-0.00004	-0.00004	-0.00002
	CK	(!D1 * !S0)	0.00371	0.00386	0.00430
	CK	(!D0 * S0)	0.00307	0.00322	0.00369
	CK	(!D0 * S0)	0.00007	0.00007	0.00007
	CK	(!D0 * S0)	-0.00004	-0.00004	-0.00004
	CK	(!D0 * S0)	0.00372	0.00386	0.00431

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX0P5H7R	CK	(D1 * !S0)	0.00315	0.00332	0.00379
	CK	(D1 * !S0)	-0.00003	-0.00003	0.00000
	CK	(D1 * !S0)	0.00007	0.00007	0.00007
	CK	(D1 * !S0)	0.00361	0.00377	0.00429
	CK	(D0 * S0)	0.00315	0.00333	0.00379
	CK	(D0 * S0)	-0.00006	-0.00003	0.00000
	CK	(D0 * S0)	0.00004	0.00007	0.00007
	CK	(D0 * S0)	0.00362	0.00377	0.00430
	CK	(!D1 * !S0)	0.00315	0.00332	0.00379
	CK	(!D1 * !S0)	-0.00005	-0.00003	0.00000
	CK	(!D1 * !S0)	0.00007	0.00007	0.00007
	CK	(!D1 * !S0)	0.00361	0.00377	0.00429
	CK	(!D0 * S0)	0.00317	0.00333	0.00379
	CK	(!D0 * S0)	-0.00006	-0.00003	0.00000
	CK	(!D0 * S0)	0.00004	0.00007	0.00007
	CK	(!D0 * S0)	0.00362	0.00377	0.00430

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7R	**(D0 * D1 * S0)**	0.00140	0.00151	0.00192
	(D0 * D1 * S0)	0.00001	0.00002	0.00002
	(D0 * D1 * S0)	0.00000	0.00000	0.00001
	(D0 * D1 * S0)	0.00196	0.00207	0.00248
	(D0 * D1 * !S0)	0.00139	0.00150	0.00191
	(D0 * D1 * !S0)	0.00001	0.00002	0.00002
	(D0 * D1 * !S0)	0.00000	0.00000	0.00001
	(D0 * D1 * !S0)	0.00195	0.00206	0.00247
	(D0 * !D1 * S0)	0.00161	0.00173	0.00215
	(D0 * !D1 * S0)	0.00000	0.00000	0.00000
	(D0 * !D1 * S0)	0.00001	0.00001	0.00002
	(D0 * !D1 * S0)	0.00214	0.00226	0.00267
	(D0 * !D1 * !S0)	0.00139	0.00150	0.00191
	(D0 * !D1 * !S0)	0.00001	0.00002	0.00002
	(D0 * !D1 * !S0)	0.00000	0.00000	0.00001
	(D0 * !D1 * !S0)	0.00195	0.00206	0.00247
	(!D0 * D1 * S0)	0.00140	0.00151	0.00192
	(!D0 * D1 * S0)	0.00001	0.00002	0.00002
	(!D0 * D1 * S0)	0.00000	0.00000	0.00001
	(!D0 * D1 * S0)	0.00196	0.00207	0.00248
	(!D0 * D1 * !S0)	0.00160	0.00172	0.00214
	(!D0 * D1 * !S0)	0.00000	0.00000	0.00001
	(!D0 * D1 * !S0)	0.00001	0.00002	0.00002
	(!D0 * D1 * !S0)	0.00213	0.00225	0.00266
	(!D0 * !D1 * S0)	0.00162	0.00173	0.00214
	(!D0 * !D1 * S0)	0.00000	0.00000	0.00000
	(!D0 * !D1 * S0)	0.00001	0.00001	0.00002
	(!D0 * !D1 * S0)	0.00214	0.00226	0.00267
	(!D0 * !D1 * !S0)	0.00160	0.00172	0.00214
	(!D0 * !D1 * !S0)	0.00000	0.00000	0.00001
	(!D0 * !D1 * !S0)	0.00001	0.00002	0.00002
	(!D0 * !D1 * !S0)	0.00213	0.00225	0.00266

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7R	**(D0 * D1 * S0)**	0.00350	0.00363	0.00410
	(D0 * D1 * S0)	-0.00001	-0.00000	0.00000
	(D0 * D1 * S0)	-0.00001	-0.00000	0.00000
	(D0 * D1 * S0)	0.00304	0.00318	0.00365
	(D0 * D1 * !S0)	0.00351	0.00364	0.00411
	(D0 * D1 * !S0)	-0.00001	-0.00001	-0.00000
	(D0 * D1 * !S0)	-0.00001	-0.00000	0.00000
	(D0 * D1 * !S0)	0.00306	0.00318	0.00365
	(D0 * !D1 * S0)	0.00352	0.00368	0.00422
	(D0 * !D1 * S0)	-0.00000	-0.00000	0.00000
	(D0 * !D1 * S0)	-0.00000	0.00001	0.00001
	(D0 * !D1 * S0)	0.00287	0.00302	0.00357
	(D0 * !D1 * !S0)	0.00351	0.00364	0.00411
	(D0 * !D1 * !S0)	-0.00001	-0.00001	-0.00000
	(D0 * !D1 * !S0)	-0.00001	-0.00000	0.00000
	(D0 * !D1 * !S0)	0.00306	0.00319	0.00365
	(!D0 * D1 * S0)	0.00350	0.00363	0.00410
	(!D0 * D1 * S0)	-0.00001	-0.00001	0.00000
	(!D0 * D1 * S0)	-0.00001	-0.00000	0.00000
	(!D0 * D1 * S0)	0.00304	0.00318	0.00365
	(!D0 * D1 * !S0)	0.00352	0.00369	0.00423
	(!D0 * D1 * !S0)	-0.00001	-0.00000	0.00000
	(!D0 * D1 * !S0)	0.00001	0.00001	0.00001
	(!D0 * D1 * !S0)	0.00287	0.00303	0.00357
	(!D0 * !D1 * S0)	0.00352	0.00368	0.00422
	(!D0 * !D1 * S0)	-0.00000	-0.00000	0.00000
	(!D0 * !D1 * S0)	-0.00000	0.00001	0.00001
	(!D0 * !D1 * S0)	0.00287	0.00302	0.00357
	(!D0 * !D1 * !S0)	0.00352	0.00368	0.00423
	(!D0 * !D1 * !S0)	-0.00001	-0.00000	0.00000
	(!D0 * !D1 * !S0)	0.00001	0.00001	0.00001
	(!D0 * !D1 * !S0)	0.00287	0.00303	0.00357

Passive power(pJ) for D0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7R	**(CK * D1 * S0)**	-0.00011	-0.00010	-0.00009
	(CK * D1 * S0)	-0.00001	-0.00001	-0.00001
	(CK * D1 * S0)	0.00001	0.00001	0.00001
	(CK * D1 * S0)	0.00024	0.00025	0.00025
	(CK * D1 * !S0)	0.00010	0.00016	0.00038
	(CK * D1 * !S0)	0.00016	0.00016	0.00016
	(CK * D1 * !S0)	-0.00012	-0.00012	-0.00012
	(CK * D1 * !S0)	0.00110	0.00115	0.00137
	(CK * !D1 * S0)	-0.00011	-0.00010	-0.00009
	(CK * !D1 * S0)	-0.00001	-0.00001	-0.00001
	(CK * !D1 * S0)	0.00001	0.00001	0.00001
	(CK * !D1 * S0)	0.00025	0.00025	0.00025
	(CK * !D1 * !S0)	0.00010	0.00016	0.00038
	(CK * !D1 * !S0)	0.00016	0.00016	0.00016
	(CK * !D1 * !S0)	-0.00012	-0.00012	-0.00012
	(CK * !D1 * !S0)	0.00110	0.00115	0.00137
	(!CK * D1 * S0)	-0.00011	-0.00010	-0.00009
	(!CK * D1 * S0)	-0.00001	-0.00001	-0.00001
	(!CK * D1 * S0)	0.00001	0.00001	0.00001
	(!CK * D1 * S0)	0.00024	0.00025	0.00025
	(!CK * D1 * !S0)	0.00158	0.00164	0.00185
	(!CK * D1 * !S0)	0.00015	0.00016	0.00016
	(!CK * D1 * !S0)	-0.00013	-0.00013	-0.00012
	(!CK * D1 * !S0)	0.00258	0.00264	0.00285
	(!CK * !D1 * S0)	-0.00011	-0.00010	-0.00009
	(!CK * !D1 * S0)	-0.00002	-0.00002	-0.00001
	(!CK * !D1 * S0)	0.00001	0.00001	0.00001
	(!CK * !D1 * S0)	0.00025	0.00025	0.00025
	(!CK * !D1 * !S0)	0.00158	0.00164	0.00185
	(!CK * !D1 * !S0)	0.00015	0.00016	0.00016
	(!CK * !D1 * !S0)	-0.00013	-0.00013	-0.00013
	(!CK * !D1 * !S0)	0.00259	0.00265	0.00286

Passive power(pJ) for D0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7R	**(CK * D1 * S0)**	0.00011	0.00012	0.00012
	(CK * D1 * S0)	0.00001	0.00001	0.00001
	(CK * D1 * S0)	-0.00001	-0.00001	-0.00001
	(CK * D1 * S0)	-0.00024	-0.00024	-0.00023
	(CK * D1 * !S0)	0.00123	0.00129	0.00153
	(CK * D1 * !S0)	-0.00016	-0.00016	-0.00015
	(CK * D1 * !S0)	0.00012	0.00012	0.00012
	(CK * D1 * !S0)	0.00024	0.00030	0.00054
	(CK * !D1 * S0)	0.00011	0.00012	0.00013
	(CK * !D1 * S0)	0.00001	0.00001	0.00001
	(CK * !D1 * S0)	-0.00001	-0.00001	-0.00001
	(CK * !D1 * S0)	-0.00024	-0.00024	-0.00023
	(CK * !D1 * !S0)	0.00123	0.00129	0.00153
	(CK * !D1 * !S0)	-0.00016	-0.00016	-0.00016
	(CK * !D1 * !S0)	0.00012	0.00012	0.00012
	(CK * !D1 * !S0)	0.00023	0.00030	0.00054
	(!CK * D1 * S0)	0.00011	0.00012	0.00012
	(!CK * D1 * S0)	0.00001	0.00001	0.00001
	(!CK * D1 * S0)	-0.00001	-0.00001	-0.00001
	(!CK * D1 * S0)	-0.00024	-0.00024	-0.00023
	(!CK * D1 * !S0)	0.00212	0.00218	0.00242
	(!CK * D1 * !S0)	-0.00016	-0.00016	-0.00015
	(!CK * D1 * !S0)	0.00012	0.00013	0.00013
	(!CK * D1 * !S0)	0.00112	0.00118	0.00141
	(!CK * !D1 * S0)	0.00011	0.00011	0.00012
	(!CK * !D1 * S0)	0.00001	0.00002	0.00002
	(!CK * !D1 * S0)	-0.00001	-0.00001	-0.00001
	(!CK * !D1 * S0)	-0.00024	-0.00024	-0.00023
	(!CK * !D1 * !S0)	0.00212	0.00218	0.00242
	(!CK * !D1 * !S0)	-0.00016	-0.00015	-0.00015
	(!CK * !D1 * !S0)	0.00013	0.00013	0.00013
	(!CK * !D1 * !S0)	0.00112	0.00118	0.00141

Passive power(pJ) for D1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7R	**(CK * D0 * S0)**	-0.00006	-0.00001	0.00020
	(CK * D0 * S0)	0.00016	0.00016	0.00016
	(CK * D0 * S0)	-0.00012	-0.00012	-0.00012
	(CK * D0 * S0)	0.00096	0.00101	0.00122
	(CK * D0 * !S0)	-0.00015	-0.00014	-0.00013
	(CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(CK * D0 * !S0)	0.00001	0.00001	0.00001
	(CK * D0 * !S0)	0.00024	0.00024	0.00025
	(CK * !D0 * S0)	-0.00006	-0.00001	0.00021
	(CK * !D0 * S0)	0.00016	0.00016	0.00016
	(CK * !D0 * S0)	-0.00012	-0.00012	-0.00012
	(CK * !D0 * S0)	0.00096	0.00101	0.00122
	(CK * !D0 * !S0)	-0.00019	-0.00018	-0.00017
	(CK * !D0 * !S0)	-0.00002	-0.00001	-0.00001
	(CK * !D0 * !S0)	0.00000	0.00001	0.00001
	(CK * !D0 * !S0)	0.00021	0.00021	0.00021
	(!CK * D0 * S0)	0.00142	0.00147	0.00168
	(!CK * D0 * S0)	0.00015	0.00016	0.00016
	(!CK * D0 * S0)	-0.00013	-0.00013	-0.00012
	(!CK * D0 * S0)	0.00245	0.00251	0.00271
	(!CK * D0 * !S0)	-0.00015	-0.00014	-0.00013
	(!CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(!CK * D0 * !S0)	0.00001	0.00001	0.00001
	(!CK * D0 * !S0)	0.00024	0.00024	0.00024
	(!CK * !D0 * S0)	0.00142	0.00147	0.00168
	(!CK * !D0 * S0)	0.00015	0.00016	0.00016
	(!CK * !D0 * S0)	-0.00013	-0.00013	-0.00012
	(!CK * !D0 * S0)	0.00245	0.00251	0.00271
	(!CK * !D0 * !S0)	-0.00019	-0.00018	-0.00017
	(!CK * !D0 * !S0)	-0.00002	-0.00001	-0.00001
	(!CK * !D0 * !S0)	0.00001	0.00001	0.00001
	(!CK * !D0 * !S0)	0.00020	0.00021	0.00021

Passive power(pJ) for D1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7R	**(CK * D0 * S0)**	0.00141	0.00147	0.00170
	(CK * D0 * S0)	-0.00016	-0.00016	-0.00016
	(CK * D0 * S0)	0.00012	0.00012	0.00012
	(CK * D0 * S0)	0.00039	0.00045	0.00068
	(CK * D0 * !S0)	0.00015	0.00015	0.00016
	(CK * D0 * !S0)	0.00001	0.00001	0.00001
	(CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(CK * D0 * !S0)	-0.00024	-0.00023	-0.00023
	(CK * !D0 * S0)	0.00141	0.00147	0.00170
	(CK * !D0 * S0)	-0.00016	-0.00016	-0.00016
	(CK * !D0 * S0)	0.00012	0.00012	0.00012
	(CK * !D0 * S0)	0.00039	0.00045	0.00068
	(CK * !D0 * !S0)	0.00019	0.00019	0.00020
	(CK * !D0 * !S0)	0.00001	0.00001	0.00002
	(CK * !D0 * !S0)	-0.00001	-0.00001	-0.00000
	(CK * !D0 * !S0)	-0.00020	-0.00019	-0.00018
	(!CK * D0 * S0)	0.00231	0.00237	0.00259
	(!CK * D0 * S0)	-0.00016	-0.00016	-0.00015
	(!CK * D0 * S0)	0.00012	0.00013	0.00013
	(!CK * D0 * S0)	0.00128	0.00134	0.00156
	(!CK * D0 * !S0)	0.00015	0.00015	0.00015
	(!CK * D0 * !S0)	0.00001	0.00001	0.00001
	(!CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(!CK * D0 * !S0)	-0.00024	-0.00023	-0.00023
	(!CK * !D0 * S0)	0.00231	0.00237	0.00259
	(!CK * !D0 * S0)	-0.00016	-0.00015	-0.00015
	(!CK * !D0 * S0)	0.00012	0.00013	0.00013
	(!CK * !D0 * S0)	0.00128	0.00134	0.00156
	(!CK * !D0 * !S0)	0.00019	0.00019	0.00020
	(!CK * !D0 * !S0)	0.00001	0.00001	0.00002
	(!CK * !D0 * !S0)	-0.00001	-0.00001	-0.00001
	(!CK * !D0 * !S0)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX0P5H7R	**(CK * D0 * D1)**	-0.00013	-0.00000	0.00048
	(CK * D0 * D1)	0.00003	0.00003	0.00003
	(CK * D0 * D1)	-0.00002	-0.00002	-0.00001
	(CK * D0 * D1)	0.00108	0.00121	0.00169
	(CK * D0 * !D1)	0.00105	0.00118	0.00164
	(CK * D0 * !D1)	-0.00010	-0.00009	-0.00008
	(CK * D0 * !D1)	0.00006	0.00007	0.00007
	(CK * D0 * !D1)	0.00177	0.00190	0.00235
	(CK * !D0 * D1)	-0.00020	0.00005	0.00096
	(CK * !D0 * D1)	0.00016	0.00016	0.00016
	(CK * !D0 * D1)	-0.00012	-0.00012	-0.00011
	(CK * !D0 * D1)	0.00151	0.00176	0.00267
	(CK * !D0 * !D1)	-0.00013	0.00001	0.00049
	(CK * !D0 * !D1)	0.00002	0.00003	0.00003
	(CK * !D0 * !D1)	-0.00002	-0.00002	-0.00002
	(CK * !D0 * !D1)	0.00108	0.00122	0.00171
	(!CK * D0 * D1)	-0.00013	-0.00000	0.00048
	(!CK * D0 * D1)	0.00003	0.00003	0.00003
	(!CK * D0 * D1)	-0.00002	-0.00002	-0.00000
	(!CK * D0 * D1)	0.00108	0.00121	0.00169
	(!CK * D0 * !D1)	0.00194	0.00206	0.00252
	(!CK * D0 * !D1)	-0.00010	-0.00009	-0.00009
	(!CK * D0 * !D1)	0.00008	0.00009	0.00010
	(!CK * D0 * !D1)	0.00263	0.00276	0.00324
	(!CK * !D0 * D1)	0.00129	0.00152	0.00238
	(!CK * !D0 * D1)	0.00015	0.00016	0.00016
	(!CK * !D0 * D1)	-0.00013	-0.00012	-0.00011
	(!CK * !D0 * D1)	0.00302	0.00325	0.00411
	(!CK * !D0 * !D1)	-0.00013	0.00001	0.00049
	(!CK * !D0 * !D1)	0.00002	0.00003	0.00004
	(!CK * !D0 * !D1)	-0.00002	-0.00002	-0.00001
	(!CK * !D0 * !D1)	0.00109	0.00122	0.00171

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

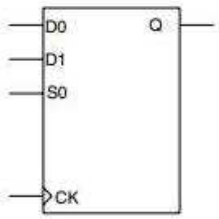
MDFFQX0P5H7R	**(CK * D0 * D1)**	0.00115	0.00130	0.00183
	(CK * D0 * D1)	-0.00003	-0.00003	-0.00003
	(CK * D0 * D1)	0.00002	0.00002	0.00003
	(CK * D0 * D1)	-0.00007	0.00008	0.00061
	(CK * D0 * !D1)	0.00148	0.00162	0.00215
	(CK * D0 * !D1)	0.00008	0.00010	0.00012
	(CK * D0 * !D1)	-0.00007	-0.00007	-0.00006
	(CK * D0 * !D1)	0.00075	0.00091	0.00144
	(CK * !D0 * D1)	0.00191	0.00220	0.00318
	(CK * !D0 * D1)	-0.00016	-0.00016	-0.00015
	(CK * !D0 * D1)	0.00011	0.00012	0.00012
	(CK * !D0 * D1)	0.00021	0.00048	0.00146
	(CK * !D0 * !D1)	0.00114	0.00129	0.00182
	(CK * !D0 * !D1)	-0.00003	-0.00003	-0.00002
	(CK * !D0 * !D1)	0.00002	0.00002	0.00003
	(CK * !D0 * !D1)	-0.00007	0.00008	0.00060
	(!CK * D0 * D1)	0.00115	0.00130	0.00183
	(!CK * D0 * D1)	-0.00003	-0.00003	-0.00003
	(!CK * D0 * D1)	0.00001	0.00002	0.00003
	(!CK * D0 * D1)	-0.00007	0.00009	0.00061
	(!CK * D0 * !D1)	0.00293	0.00309	0.00363
	(!CK * D0 * !D1)	0.00009	0.00009	0.00011
	(!CK * D0 * !D1)	-0.00009	-0.00009	-0.00008
	(!CK * D0 * !D1)	0.00223	0.00238	0.00293
	(!CK * !D0 * D1)	0.00283	0.00308	0.00401
	(!CK * !D0 * D1)	-0.00016	-0.00016	-0.00015
	(!CK * !D0 * D1)	0.00011	0.00012	0.00013
	(!CK * !D0 * D1)	0.00110	0.00136	0.00229
	(!CK * !D0 * !D1)	0.00114	0.00129	0.00182
	(!CK * !D0 * !D1)	-0.00004	-0.00003	-0.00002
	(!CK * !D0 * !D1)	0.00002	0.00002	0.00003
	(!CK * !D0 * !D1)	-0.00007	0.00008	0.00060

MDFFQX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MDFFQ cell is a positive edge-triggered, static D-type flip-flop with a 2-to-1 data-select control (S0) for the data inputs (D1, D0). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D0	D1	S0	Q
R	0	0	x	0
R	0	1	0	0
R	x	1	1	1
R	1	x	0	1
R	1	0	1	0
x	x	x	x	IQ

Footprint

Cell Name	Area
MDFFQX1H7R	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	**D0**	**D1**	**S0**	**Q**
MDFFQX1H7R	0.00080	0.00070	0.00077	0.00187	0.07037

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MDFFQX1H7R	0.00000	1.10633	1.57803

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX1H7R	CK->Q (RR)	(D1 * !S0)	0.09863	0.25035	0.60617
	CK->Q (RR)	(D0 * S0)	0.09863	0.25037	0.60645
	CK->Q (RR)	(!D1 * !S0)	0.09863	0.25036	0.60617
	CK->Q (RR)	(!D0 * S0)	0.09864	0.25037	0.60645

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX1H7R	CK->Q (RF)	(D1 * !S0)	0.07574	0.20785	0.50247
	CK->Q (RF)	(D0 * S0)	0.07576	0.20785	0.50262
	CK->Q (RF)	(!D1 * !S0)	0.07574	0.20785	0.50265
	CK->Q (RF)	(!D0 * S0)	0.07576	0.20785	0.50262

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
MDFFQX1H7R	0.9851	0.9851

Constraints(ns) for D0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7R	**hold**	**CK (R)**	-0.12003	-0.06085	-0.02460
	setup	**CK (R)**	0.03160	0.07209	0.14112

Constraints(ns) for D0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7R	**hold**	**CK (R)**	-0.17030	-0.05053	0.04604
	setup	**CK (R)**	0.02187	0.08896	0.20348

Constraints(ns) for D1 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7R	**hold**	**CK (R)**	-0.11971	-0.06100	-0.02431
	setup	**CK (R)**	0.03409	0.07264	0.14491

Constraints(ns) for D1 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7R	**hold**	**CK (R)**	-0.16867	-0.05149	0.04499
	setup	**CK (R)**	0.02405	0.09025	0.20270

Constraints(ns) for S0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7R	hold	CK (R)	-0.09155	-0.03452	0.03491
	setup	CK (R)	0.03371	0.08243	0.14051

Constraints(ns) for S0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX1H7R	hold	CK (R)	-0.13900	-0.04080	0.05538
	setup	CK (R)	0.04773	0.09237	0.19201

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX1H7R	CK	(D1 * !S0)	0.00314	0.00328	0.00375
	CK	(D1 * !S0)	0.00005	0.00006	0.00006
	CK	(D1 * !S0)	-0.00004	-0.00003	-0.00002
	CK	(D1 * !S0)	0.00377	0.00392	0.00437
	CK	(D0 * S0)	0.00314	0.00329	0.00376
	CK	(D0 * S0)	0.00006	0.00006	0.00006
	CK	(D0 * S0)	-0.00006	-0.00003	-0.00002
	CK	(D0 * S0)	0.00378	0.00392	0.00437
	CK	(!D1 * !S0)	0.00314	0.00328	0.00375
	CK	(!D1 * !S0)	0.00006	0.00006	0.00007
	CK	(!D1 * !S0)	-0.00004	-0.00003	-0.00003
	CK	(!D1 * !S0)	0.00377	0.00391	0.00437
	CK	(!D0 * S0)	0.00314	0.00329	0.00376
	CK	(!D0 * S0)	0.00003	0.00006	0.00006
	CK	(!D0 * S0)	-0.00004	-0.00003	-0.00002
	CK	(!D0 * S0)	0.00378	0.00392	0.00437

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX1H7R	CK	(D1 * !S0)	0.00320	0.00338	0.00385
	CK	(D1 * !S0)	-0.00006	-0.00002	0.00001
	CK	(D1 * !S0)	0.00006	0.00006	0.00008
	CK	(D1 * !S0)	0.00369	0.00384	0.00435
	CK	(D0 * S0)	0.00321	0.00339	0.00386
	CK	(D0 * S0)	-0.00006	-0.00002	0.00001
	CK	(D0 * S0)	0.00006	0.00006	0.00009
	CK	(D0 * S0)	0.00369	0.00385	0.00437
	CK	(!D1 * !S0)	0.00320	0.00338	0.00385
	CK	(!D1 * !S0)	-0.00002	-0.00002	0.00001
	CK	(!D1 * !S0)	0.00005	0.00006	0.00006
	CK	(!D1 * !S0)	0.00369	0.00384	0.00437
	CK	(!D0 * S0)	0.00321	0.00339	0.00386
	CK	(!D0 * S0)	-0.00006	-0.00002	0.00001
	CK	(!D0 * S0)	0.00004	0.00006	0.00007
	CK	(!D0 * S0)	0.00368	0.00385	0.00437

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7R	**(D0 * D1 * S0)**	0.00140	0.00151	0.00192
	(D0 * D1 * S0)	0.00002	0.00002	0.00002
	(D0 * D1 * S0)	0.00000	0.00000	0.00001
	(D0 * D1 * S0)	0.00196	0.00207	0.00248
	(D0 * D1 * !S0)	0.00139	0.00150	0.00191
	(D0 * D1 * !S0)	0.00002	0.00002	0.00002
	(D0 * D1 * !S0)	0.00000	0.00000	0.00000
	(D0 * D1 * !S0)	0.00195	0.00206	0.00247
	(D0 * !D1 * S0)	0.00162	0.00173	0.00215
	(D0 * !D1 * S0)	0.00000	0.00000	0.00000
	(D0 * !D1 * S0)	0.00001	0.00002	0.00003
	(D0 * !D1 * S0)	0.00213	0.00225	0.00267
	(D0 * !D1 * !S0)	0.00139	0.00150	0.00191
	(D0 * !D1 * !S0)	0.00002	0.00002	0.00002
	(D0 * !D1 * !S0)	0.00000	0.00000	0.00000
	(D0 * !D1 * !S0)	0.00195	0.00206	0.00247
	(!D0 * D1 * S0)	0.00140	0.00151	0.00192
	(!D0 * D1 * S0)	0.00002	0.00002	0.00002
	(!D0 * D1 * S0)	0.00000	0.00000	0.00000
	(!D0 * D1 * S0)	0.00196	0.00207	0.00248
	(!D0 * D1 * !S0)	0.00160	0.00172	0.00214
	(!D0 * D1 * !S0)	0.00000	0.00000	0.00001
	(!D0 * D1 * !S0)	0.00001	0.00002	0.00002
	(!D0 * D1 * !S0)	0.00213	0.00225	0.00266
	(!D0 * !D1 * S0)	0.00162	0.00173	0.00214
	(!D0 * !D1 * S0)	0.00000	0.00000	0.00000
	(!D0 * !D1 * S0)	0.00001	0.00002	0.00003
	(!D0 * !D1 * S0)	0.00213	0.00225	0.00267
	(!D0 * !D1 * !S0)	0.00161	0.00172	0.00214
	(!D0 * !D1 * !S0)	0.00000	0.00000	0.00000
	(!D0 * !D1 * !S0)	0.00001	0.00001	0.00002
	(!D0 * !D1 * !S0)	0.00213	0.00225	0.00266

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7R	**(D0 * D1 * S0)**	0.00350	0.00363	0.00410
	(D0 * D1 * S0)	-0.00001	-0.00000	0.00000
	(D0 * D1 * S0)	-0.00001	-0.00000	0.00000
	(D0 * D1 * S0)	0.00304	0.00317	0.00365
	(D0 * D1 * !S0)	0.00351	0.00364	0.00411
	(D0 * D1 * !S0)	-0.00001	-0.00001	-0.00000
	(D0 * D1 * !S0)	-0.00000	-0.00000	0.00000
	(D0 * D1 * !S0)	0.00306	0.00318	0.00365
	(D0 * !D1 * S0)	0.00352	0.00368	0.00422
	(D0 * !D1 * S0)	-0.00000	-0.00000	0.00000
	(D0 * !D1 * S0)	0.00000	0.00001	0.00001
	(D0 * !D1 * S0)	0.00287	0.00302	0.00356
	(D0 * !D1 * !S0)	0.00351	0.00364	0.00411
	(D0 * !D1 * !S0)	-0.00001	-0.00001	-0.00000
	(D0 * !D1 * !S0)	-0.00000	-0.00000	0.00000
	(D0 * !D1 * !S0)	0.00306	0.00318	0.00365
	(!D0 * D1 * S0)	0.00350	0.00363	0.00410
	(!D0 * D1 * S0)	-0.00001	-0.00000	0.00000
	(!D0 * D1 * S0)	-0.00000	-0.00000	0.00000
	(!D0 * D1 * S0)	0.00304	0.00317	0.00365
	(!D0 * D1 * !S0)	0.00352	0.00368	0.00423
	(!D0 * D1 * !S0)	-0.00001	-0.00000	0.00000
	(!D0 * D1 * !S0)	0.00000	0.00001	0.00001
	(!D0 * D1 * !S0)	0.00288	0.00303	0.00357
	(!D0 * !D1 * S0)	0.00352	0.00368	0.00422
	(!D0 * !D1 * S0)	-0.00000	-0.00000	0.00000
	(!D0 * !D1 * S0)	0.00000	0.00001	0.00001
	(!D0 * !D1 * S0)	0.00287	0.00302	0.00356
	(!D0 * !D1 * !S0)	0.00352	0.00368	0.00423
	(!D0 * !D1 * !S0)	-0.00000	-0.00000	0.00000
	(!D0 * !D1 * !S0)	0.00000	0.00001	0.00001
	(!D0 * !D1 * !S0)	0.00288	0.00303	0.00357

Passive power(pJ) for D0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7R	**(CK * D1 * S0)**	-0.00011	-0.00010	-0.00009
	(CK * D1 * S0)	-0.00001	-0.00001	-0.00001
	(CK * D1 * S0)	0.00001	0.00001	0.00001
	(CK * D1 * S0)	0.00024	0.00025	0.00025
	(CK * D1 * !S0)	0.00010	0.00016	0.00038
	(CK * D1 * !S0)	0.00016	0.00016	0.00016
	(CK * D1 * !S0)	-0.00012	-0.00012	-0.00012
	(CK * D1 * !S0)	0.00110	0.00115	0.00137
	(CK * !D1 * S0)	-0.00011	-0.00010	-0.00009
	(CK * !D1 * S0)	-0.00001	-0.00001	-0.00001
	(CK * !D1 * S0)	0.00001	0.00001	0.00001
	(CK * !D1 * S0)	0.00025	0.00025	0.00025
	(CK * !D1 * !S0)	0.00010	0.00016	0.00038
	(CK * !D1 * !S0)	0.00016	0.00016	0.00016
	(CK * !D1 * !S0)	-0.00012	-0.00012	-0.00012
	(CK * !D1 * !S0)	0.00110	0.00115	0.00137
	(!CK * D1 * S0)	-0.00011	-0.00010	-0.00009
	(!CK * D1 * S0)	-0.00001	-0.00001	-0.00001
	(!CK * D1 * S0)	0.00001	0.00001	0.00001
	(!CK * D1 * S0)	0.00024	0.00025	0.00025
	(!CK * D1 * !S0)	0.00158	0.00164	0.00185
	(!CK * D1 * !S0)	0.00015	0.00016	0.00016
	(!CK * D1 * !S0)	-0.00013	-0.00013	-0.00012
	(!CK * D1 * !S0)	0.00259	0.00264	0.00285
	(!CK * !D1 * S0)	-0.00011	-0.00010	-0.00009
	(!CK * !D1 * S0)	-0.00002	-0.00002	-0.00001
	(!CK * !D1 * S0)	0.00001	0.00001	0.00001
	(!CK * !D1 * S0)	0.00025	0.00025	0.00025
	(!CK * !D1 * !S0)	0.00158	0.00164	0.00185
	(!CK * !D1 * !S0)	0.00015	0.00016	0.00016
	(!CK * !D1 * !S0)	-0.00013	-0.00013	-0.00013
	(!CK * !D1 * !S0)	0.00259	0.00265	0.00286

Passive power(pJ) for D0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7R	**(CK * D1 * S0)**	0.00011	0.00012	0.00012
	(CK * D1 * S0)	0.00001	0.00001	0.00001
	(CK * D1 * S0)	-0.00001	-0.00001	-0.00001
	(CK * D1 * S0)	-0.00024	-0.00024	-0.00023
	(CK * D1 * !S0)	0.00123	0.00129	0.00153
	(CK * D1 * !S0)	-0.00016	-0.00016	-0.00015
	(CK * D1 * !S0)	0.00012	0.00012	0.00012
	(CK * D1 * !S0)	0.00024	0.00030	0.00054
	(CK * !D1 * S0)	0.00011	0.00012	0.00013
	(CK * !D1 * S0)	0.00001	0.00001	0.00001
	(CK * !D1 * S0)	-0.00001	-0.00001	-0.00001
	(CK * !D1 * S0)	-0.00024	-0.00024	-0.00023
	(CK * !D1 * !S0)	0.00123	0.00129	0.00153
	(CK * !D1 * !S0)	-0.00016	-0.00016	-0.00016
	(CK * !D1 * !S0)	0.00012	0.00012	0.00012
	(CK * !D1 * !S0)	0.00023	0.00030	0.00054
	(!CK * D1 * S0)	0.00011	0.00012	0.00012
	(!CK * D1 * S0)	0.00001	0.00001	0.00001
	(!CK * D1 * S0)	-0.00001	-0.00001	-0.00001
	(!CK * D1 * S0)	-0.00024	-0.00024	-0.00023
	(!CK * D1 * !S0)	0.00212	0.00218	0.00242
	(!CK * D1 * !S0)	-0.00016	-0.00015	-0.00015
	(!CK * D1 * !S0)	0.00012	0.00013	0.00013
	(!CK * D1 * !S0)	0.00112	0.00118	0.00141
	(!CK * !D1 * S0)	0.00011	0.00011	0.00012
	(!CK * !D1 * S0)	0.00001	0.00002	0.00002
	(!CK * !D1 * S0)	-0.00001	-0.00001	-0.00001
	(!CK * !D1 * S0)	-0.00024	-0.00024	-0.00023
	(!CK * !D1 * !S0)	0.00212	0.00218	0.00242
	(!CK * !D1 * !S0)	-0.00016	-0.00016	-0.00015
	(!CK * !D1 * !S0)	0.00013	0.00013	0.00013
	(!CK * !D1 * !S0)	0.00112	0.00118	0.00141

Passive power(pJ) for D1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7R	**(CK * D0 * S0)**	-0.00006	-0.00001	0.00020
	(CK * D0 * S0)	0.00016	0.00016	0.00016
	(CK * D0 * S0)	-0.00012	-0.00012	-0.00012
	(CK * D0 * S0)	0.00096	0.00101	0.00122
	(CK * D0 * !S0)	-0.00015	-0.00014	-0.00013
	(CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(CK * D0 * !S0)	0.00001	0.00001	0.00001
	(CK * D0 * !S0)	0.00024	0.00024	0.00025
	(CK * !D0 * S0)	-0.00006	-0.00001	0.00021
	(CK * !D0 * S0)	0.00016	0.00016	0.00016
	(CK * !D0 * S0)	-0.00012	-0.00012	-0.00012
	(CK * !D0 * S0)	0.00096	0.00101	0.00122
	(CK * !D0 * !S0)	-0.00019	-0.00018	-0.00017
	(CK * !D0 * !S0)	-0.00002	-0.00001	-0.00001
	(CK * !D0 * !S0)	0.00000	0.00001	0.00001
	(CK * !D0 * !S0)	0.00021	0.00021	0.00021
	(!CK * D0 * S0)	0.00142	0.00147	0.00168
	(!CK * D0 * S0)	0.00015	0.00016	0.00016
	(!CK * D0 * S0)	-0.00013	-0.00013	-0.00013
	(!CK * D0 * S0)	0.00245	0.00251	0.00271
	(!CK * D0 * !S0)	-0.00015	-0.00014	-0.00013
	(!CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(!CK * D0 * !S0)	0.00001	0.00001	0.00001
	(!CK * D0 * !S0)	0.00024	0.00024	0.00024
	(!CK * !D0 * S0)	0.00142	0.00147	0.00168
	(!CK * !D0 * S0)	0.00015	0.00016	0.00016
	(!CK * !D0 * S0)	-0.00013	-0.00013	-0.00013
	(!CK * !D0 * S0)	0.00246	0.00251	0.00271
	(!CK * !D0 * !S0)	-0.00019	-0.00018	-0.00017
	(!CK * !D0 * !S0)	-0.00002	-0.00001	-0.00001
	(!CK * !D0 * !S0)	0.00001	0.00001	0.00001
	(!CK * !D0 * !S0)	0.00020	0.00021	0.00021

Passive power(pJ) for D1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7R	**(CK * D0 * S0)**	0.00141	0.00147	0.00170
	(CK * D0 * S0)	-0.00016	-0.00016	-0.00016
	(CK * D0 * S0)	0.00012	0.00012	0.00012
	(CK * D0 * S0)	0.00039	0.00045	0.00068
	(CK * D0 * !S0)	0.00015	0.00015	0.00016
	(CK * D0 * !S0)	0.00001	0.00001	0.00001
	(CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(CK * D0 * !S0)	-0.00024	-0.00023	-0.00023
	(CK * !D0 * S0)	0.00141	0.00147	0.00170
	(CK * !D0 * S0)	-0.00016	-0.00016	-0.00016
	(CK * !D0 * S0)	0.00012	0.00012	0.00012
	(CK * !D0 * S0)	0.00039	0.00045	0.00068
	(CK * !D0 * !S0)	0.00019	0.00019	0.00020
	(CK * !D0 * !S0)	0.00001	0.00001	0.00002
	(CK * !D0 * !S0)	-0.00001	-0.00001	-0.00000
	(CK * !D0 * !S0)	-0.00020	-0.00019	-0.00018
	(!CK * D0 * S0)	0.00231	0.00237	0.00259
	(!CK * D0 * S0)	-0.00016	-0.00015	-0.00015
	(!CK * D0 * S0)	0.00013	0.00013	0.00013
	(!CK * D0 * S0)	0.00128	0.00134	0.00156
	(!CK * D0 * !S0)	0.00015	0.00015	0.00015
	(!CK * D0 * !S0)	0.00001	0.00001	0.00001
	(!CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(!CK * D0 * !S0)	-0.00024	-0.00023	-0.00023
	(!CK * !D0 * S0)	0.00231	0.00237	0.00259
	(!CK * !D0 * S0)	-0.00016	-0.00015	-0.00015
	(!CK * !D0 * S0)	0.00013	0.00013	0.00013
	(!CK * !D0 * S0)	0.00128	0.00134	0.00156
	(!CK * !D0 * !S0)	0.00019	0.00019	0.00020
	(!CK * !D0 * !S0)	0.00001	0.00001	0.00002
	(!CK * !D0 * !S0)	-0.00001	-0.00001	-0.00001
	(!CK * !D0 * !S0)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX1H7R	**(CK * D0 * D1)**	-0.00013	-0.00000	0.00048
	(CK * D0 * D1)	0.00003	0.00003	0.00003
	(CK * D0 * D1)	-0.00002	-0.00002	-0.00001
	(CK * D0 * D1)	0.00108	0.00121	0.00169
	(CK * D0 * !D1)	0.00105	0.00118	0.00164
	(CK * D0 * !D1)	-0.00010	-0.00009	-0.00007
	(CK * D0 * !D1)	0.00007	0.00008	0.00009
	(CK * D0 * !D1)	0.00177	0.00189	0.00235
	(CK * !D0 * D1)	-0.00020	0.00005	0.00096
	(CK * !D0 * D1)	0.00016	0.00016	0.00016
	(CK * !D0 * D1)	-0.00012	-0.00012	-0.00011
	(CK * !D0 * D1)	0.00151	0.00176	0.00267
	(CK * !D0 * !D1)	-0.00013	0.00001	0.00049
	(CK * !D0 * !D1)	0.00002	0.00003	0.00003
	(CK * !D0 * !D1)	-0.00002	-0.00002	-0.00002
	(CK * !D0 * !D1)	0.00108	0.00122	0.00171
	(!CK * D0 * D1)	-0.00013	-0.00000	0.00048
	(!CK * D0 * D1)	0.00003	0.00003	0.00003
	(!CK * D0 * D1)	-0.00002	-0.00002	-0.00000
	(!CK * D0 * D1)	0.00108	0.00121	0.00169
	(!CK * D0 * !D1)	0.00194	0.00206	0.00252
	(!CK * D0 * !D1)	-0.00010	-0.00009	-0.00008
	(!CK * D0 * !D1)	0.00008	0.00009	0.00010
	(!CK * D0 * !D1)	0.00263	0.00276	0.00324
	(!CK * !D0 * D1)	0.00129	0.00152	0.00238
	(!CK * !D0 * D1)	0.00015	0.00015	0.00016
	(!CK * !D0 * D1)	-0.00013	-0.00012	-0.00012
	(!CK * !D0 * D1)	0.00302	0.00325	0.00411
	(!CK * !D0 * !D1)	-0.00013	0.00001	0.00049
	(!CK * !D0 * !D1)	0.00002	0.00003	0.00004
	(!CK * !D0 * !D1)	-0.00002	-0.00002	-0.00001
	(!CK * !D0 * !D1)	0.00109	0.00122	0.00171

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

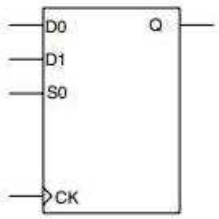
MDFFQX1H7R	**(CK * D0 * D1)**	0.00115	0.00130	0.00183
	(CK * D0 * D1)	-0.00003	-0.00003	-0.00003
	(CK * D0 * D1)	0.00002	0.00002	0.00003
	(CK * D0 * D1)	-0.00007	0.00008	0.00061
	(CK * D0 * !D1)	0.00148	0.00163	0.00215
	(CK * D0 * !D1)	0.00007	0.00009	0.00010
	(CK * D0 * !D1)	-0.00008	-0.00007	-0.00007
	(CK * D0 * !D1)	0.00075	0.00091	0.00144
	(CK * !D0 * D1)	0.00191	0.00220	0.00318
	(CK * !D0 * D1)	-0.00016	-0.00016	-0.00015
	(CK * !D0 * D1)	0.00011	0.00012	0.00012
	(CK * !D0 * D1)	0.00021	0.00048	0.00146
	(CK * !D0 * !D1)	0.00114	0.00129	0.00182
	(CK * !D0 * !D1)	-0.00003	-0.00003	-0.00002
	(CK * !D0 * !D1)	0.00002	0.00002	0.00003
	(CK * !D0 * !D1)	-0.00007	0.00008	0.00060
	(!CK * D0 * D1)	0.00115	0.00130	0.00183
	(!CK * D0 * D1)	-0.00003	-0.00003	-0.00003
	(!CK * D0 * D1)	0.00001	0.00002	0.00003
	(!CK * D0 * D1)	-0.00007	0.00009	0.00062
	(!CK * D0 * !D1)	0.00293	0.00309	0.00363
	(!CK * D0 * !D1)	0.00008	0.00009	0.00011
	(!CK * D0 * !D1)	-0.00009	-0.00009	-0.00008
	(!CK * D0 * !D1)	0.00223	0.00239	0.00293
	(!CK * !D0 * D1)	0.00283	0.00308	0.00401
	(!CK * !D0 * D1)	-0.00016	-0.00015	-0.00015
	(!CK * !D0 * D1)	0.00012	0.00012	0.00013
	(!CK * !D0 * D1)	0.00110	0.00136	0.00229
	(!CK * !D0 * !D1)	0.00115	0.00130	0.00182
	(!CK * !D0 * !D1)	-0.00004	-0.00003	-0.00002
	(!CK * !D0 * !D1)	0.00002	0.00002	0.00003
	(!CK * !D0 * !D1)	-0.00007	0.00008	0.00060

MDFFQX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MDFFQ cell is a positive edge-triggered, static D-type flip-flop with a 2-to-1 data-select control (S0) for the data inputs (D1, D0). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D0	D1	S0	Q
R	0	0	x	0
R	0	1	0	0
R	x	1	1	1
R	1	x	0	1
R	1	0	1	0
x	x	x	x	IQ

Footprint

Cell Name	Area
MDFFQX2H7R	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	**D0**	**D1**	**S0**	**Q**
MDFFQX2H7R	0.00080	0.00070	0.00077	0.00187	0.08909

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MDFFQX2H7R	0.00000	1.16320	1.66771

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX2H7R	CK->Q (RR)	(D1 * !S0)	0.10084	0.25453	0.61213
	CK->Q (RR)	(D0 * S0)	0.10084	0.25454	0.61218
	CK->Q (RR)	(!D1 * !S0)	0.10084	0.25454	0.61231
	CK->Q (RR)	(!D0 * S0)	0.10084	0.25454	0.61219

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MDFFQX2H7R	CK->Q (RF)	(D1 * !S0)	0.07920	0.21345	0.50789
	CK->Q (RF)	(D0 * S0)	0.07922	0.21345	0.50782
	CK->Q (RF)	(!D1 * !S0)	0.07920	0.21344	0.50787
	CK->Q (RF)	(!D0 * S0)	0.07922	0.21345	0.50782

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
MDFFQX2H7R	0.9851	0.9851

Constraints(ns) for D0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7R	**hold**	**CK (R)**	-0.12003	-0.06096	-0.02242
	setup	**CK (R)**	0.03160	0.07217	0.14111

Constraints(ns) for D0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7R	**hold**	**CK (R)**	-0.17126	-0.05028	0.04597
	setup	**CK (R)**	0.02109	0.08836	0.20255

Constraints(ns) for D1 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7R	**hold**	**CK (R)**	-0.12084	-0.06108	-0.02580
	setup	**CK (R)**	0.03409	0.07264	0.14492

Constraints(ns) for D1 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7R	**hold**	**CK (R)**	-0.17076	-0.05137	0.04475
	setup	**CK (R)**	0.02367	0.08978	0.20283

Constraints(ns) for S0 rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7R	hold	CK (R)	-0.09387	-0.03480	0.03309
	setup	CK (R)	0.02972	0.08187	0.14052

Constraints(ns) for S0 falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
MDFFQX2H7R	hold	CK (R)	-0.14134	-0.04104	0.05432
	setup	CK (R)	0.04773	0.09241	0.19201

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX2H7R	CK	(D1 * !S0)	0.00332	0.00347	0.00395
	CK	(D1 * !S0)	0.00005	0.00005	0.00005
	CK	(D1 * !S0)	-0.00005	-0.00003	-0.00002
	CK	(D1 * !S0)	0.00393	0.00408	0.00454
	CK	(D0 * S0)	0.00333	0.00347	0.00395
	CK	(D0 * S0)	0.00005	0.00005	0.00005
	CK	(D0 * S0)	-0.00005	-0.00003	-0.00002
	CK	(D0 * S0)	0.00394	0.00409	0.00454
	CK	(!D1 * !S0)	0.00332	0.00347	0.00394
	CK	(!D1 * !S0)	0.00005	0.00005	0.00005
	CK	(!D1 * !S0)	-0.00006	-0.00003	-0.00002
	CK	(!D1 * !S0)	0.00393	0.00408	0.00456
	CK	(!D0 * S0)	0.00333	0.00348	0.00395
	CK	(!D0 * S0)	0.00005	0.00005	0.00005
	CK	(!D0 * S0)	-0.00006	-0.00003	-0.00002
	CK	(!D0 * S0)	0.00394	0.00409	0.00454

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MDFFQX2H7R	CK	(D1 * !S0)	0.00346	0.00362	0.00409
	CK	(D1 * !S0)	-0.00002	-0.00001	-0.00001
	CK	(D1 * !S0)	0.00006	0.00006	0.00006
	CK	(D1 * !S0)	0.00394	0.00409	0.00459
	CK	(D0 * S0)	0.00347	0.00362	0.00410
	CK	(D0 * S0)	-0.00005	-0.00001	-0.00001
	CK	(D0 * S0)	0.00005	0.00006	0.00008
	CK	(D0 * S0)	0.00394	0.00410	0.00459
	CK	(!D1 * !S0)	0.00346	0.00362	0.00409
	CK	(!D1 * !S0)	-0.00002	-0.00001	-0.00001
	CK	(!D1 * !S0)	0.00006	0.00006	0.00006
	CK	(!D1 * !S0)	0.00393	0.00409	0.00459
	CK	(!D0 * S0)	0.00345	0.00362	0.00410
	CK	(!D0 * S0)	-0.00004	-0.00001	0.00002
	CK	(!D0 * S0)	0.00005	0.00006	0.00008
	CK	(!D0 * S0)	0.00394	0.00410	0.00459

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7R	**(D0 * D1 * S0)**	0.00140	0.00151	0.00192
	(D0 * D1 * S0)	0.00002	0.00002	0.00002
	(D0 * D1 * S0)	0.00000	0.00000	0.00000
	(D0 * D1 * S0)	0.00196	0.00207	0.00248
	(D0 * D1 * !S0)	0.00139	0.00150	0.00191
	(D0 * D1 * !S0)	0.00001	0.00002	0.00002
	(D0 * D1 * !S0)	0.00000	0.00000	0.00000
	(D0 * D1 * !S0)	0.00195	0.00206	0.00247
	(D0 * !D1 * S0)	0.00162	0.00173	0.00214
	(D0 * !D1 * S0)	0.00000	0.00000	0.00000
	(D0 * !D1 * S0)	0.00001	0.00002	0.00002
	(D0 * !D1 * S0)	0.00214	0.00225	0.00267
	(D0 * !D1 * !S0)	0.00139	0.00150	0.00191
	(D0 * !D1 * !S0)	0.00001	0.00002	0.00002
	(D0 * !D1 * !S0)	0.00000	0.00000	0.00000
	(D0 * !D1 * !S0)	0.00195	0.00206	0.00247
	(!D0 * D1 * S0)	0.00140	0.00151	0.00192
	(!D0 * D1 * S0)	0.00002	0.00002	0.00002
	(!D0 * D1 * S0)	0.00000	0.00000	0.00000
	(!D0 * D1 * S0)	0.00196	0.00207	0.00248
	(!D0 * D1 * !S0)	0.00161	0.00172	0.00214
	(!D0 * D1 * !S0)	0.00000	0.00000	0.00000
	(!D0 * D1 * !S0)	0.00001	0.00002	0.00002
	(!D0 * D1 * !S0)	0.00213	0.00225	0.00266
	(!D0 * !D1 * S0)	0.00162	0.00173	0.00214
	(!D0 * !D1 * S0)	0.00000	0.00000	0.00000
	(!D0 * !D1 * S0)	0.00001	0.00002	0.00002
	(!D0 * !D1 * S0)	0.00214	0.00225	0.00267
	(!D0 * !D1 * !S0)	0.00161	0.00172	0.00214
	(!D0 * !D1 * !S0)	0.00000	0.00000	0.00001
	(!D0 * !D1 * !S0)	0.00001	0.00002	0.00002
	(!D0 * !D1 * !S0)	0.00213	0.00225	0.00266

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7R	**(D0 * D1 * S0)**	0.00350	0.00363	0.00410
	(D0 * D1 * S0)	-0.00001	-0.00001	-0.00000
	(D0 * D1 * S0)	-0.00000	-0.00000	0.00000
	(D0 * D1 * S0)	0.00305	0.00318	0.00365
	(D0 * D1 * !S0)	0.00351	0.00364	0.00411
	(D0 * D1 * !S0)	-0.00001	-0.00001	-0.00000
	(D0 * D1 * !S0)	-0.00000	-0.00000	0.00000
	(D0 * D1 * !S0)	0.00305	0.00319	0.00366
	(D0 * !D1 * S0)	0.00352	0.00368	0.00422
	(D0 * !D1 * S0)	-0.00000	-0.00000	0.00000
	(D0 * !D1 * S0)	0.00000	0.00001	0.00001
	(D0 * !D1 * S0)	0.00287	0.00302	0.00357
	(D0 * !D1 * !S0)	0.00351	0.00364	0.00411
	(D0 * !D1 * !S0)	-0.00001	-0.00001	-0.00000
	(D0 * !D1 * !S0)	-0.00000	-0.00000	0.00000
	(D0 * !D1 * !S0)	0.00305	0.00319	0.00366
	(!D0 * D1 * S0)	0.00350	0.00363	0.00410
	(!D0 * D1 * S0)	-0.00001	-0.00001	-0.00000
	(!D0 * D1 * S0)	-0.00000	-0.00000	0.00000
	(!D0 * D1 * S0)	0.00304	0.00318	0.00365
	(!D0 * D1 * !S0)	0.00353	0.00369	0.00423
	(!D0 * D1 * !S0)	-0.00000	-0.00000	0.00000
	(!D0 * D1 * !S0)	0.00001	0.00001	0.00001
	(!D0 * D1 * !S0)	0.00287	0.00303	0.00357
	(!D0 * !D1 * S0)	0.00352	0.00368	0.00422
	(!D0 * !D1 * S0)	-0.00000	-0.00000	0.00000
	(!D0 * !D1 * S0)	0.00000	0.00001	0.00001
	(!D0 * !D1 * S0)	0.00287	0.00302	0.00357
	(!D0 * !D1 * !S0)	0.00353	0.00369	0.00423
	(!D0 * !D1 * !S0)	-0.00001	-0.00000	0.00000
	(!D0 * !D1 * !S0)	0.00001	0.00001	0.00001
	(!D0 * !D1 * !S0)	0.00287	0.00303	0.00357

Passive power(pJ) for D0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7R	**(CK * D1 * S0)**	-0.00011	-0.00010	-0.00009
	(CK * D1 * S0)	-0.00001	-0.00001	-0.00001
	(CK * D1 * S0)	0.00001	0.00001	0.00001
	(CK * D1 * S0)	0.00024	0.00025	0.00025
	(CK * D1 * !S0)	0.00010	0.00016	0.00038
	(CK * D1 * !S0)	0.00016	0.00016	0.00016
	(CK * D1 * !S0)	-0.00012	-0.00012	-0.00012
	(CK * D1 * !S0)	0.00110	0.00115	0.00137
	(CK * !D1 * S0)	-0.00011	-0.00010	-0.00009
	(CK * !D1 * S0)	-0.00001	-0.00001	-0.00001
	(CK * !D1 * S0)	0.00001	0.00001	0.00001
	(CK * !D1 * S0)	0.00025	0.00025	0.00025
	(CK * !D1 * !S0)	0.00010	0.00016	0.00038
	(CK * !D1 * !S0)	0.00016	0.00016	0.00016
	(CK * !D1 * !S0)	-0.00012	-0.00012	-0.00012
	(CK * !D1 * !S0)	0.00110	0.00115	0.00137
	(!CK * D1 * S0)	-0.00011	-0.00010	-0.00009
	(!CK * D1 * S0)	-0.00001	-0.00001	-0.00001
	(!CK * D1 * S0)	0.00001	0.00001	0.00001
	(!CK * D1 * S0)	0.00024	0.00025	0.00025
	(!CK * D1 * !S0)	0.00159	0.00164	0.00185
	(!CK * D1 * !S0)	0.00015	0.00016	0.00016
	(!CK * D1 * !S0)	-0.00013	-0.00013	-0.00012
	(!CK * D1 * !S0)	0.00259	0.00264	0.00285
	(!CK * !D1 * S0)	-0.00011	-0.00010	-0.00009
	(!CK * !D1 * S0)	-0.00002	-0.00002	-0.00001
	(!CK * !D1 * S0)	0.00001	0.00001	0.00001
	(!CK * !D1 * S0)	0.00025	0.00025	0.00025
	(!CK * !D1 * !S0)	0.00159	0.00164	0.00185
	(!CK * !D1 * !S0)	0.00015	0.00016	0.00016
	(!CK * !D1 * !S0)	-0.00013	-0.00013	-0.00013
	(!CK * !D1 * !S0)	0.00259	0.00265	0.00286

Passive power(pJ) for D0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7R	**(CK * D1 * S0)**	0.00011	0.00012	0.00012
	(CK * D1 * S0)	0.00001	0.00001	0.00001
	(CK * D1 * S0)	-0.00001	-0.00001	-0.00001
	(CK * D1 * S0)	-0.00024	-0.00024	-0.00023
	(CK * D1 * !S0)	0.00123	0.00129	0.00153
	(CK * D1 * !S0)	-0.00016	-0.00016	-0.00016
	(CK * D1 * !S0)	0.00012	0.00012	0.00012
	(CK * D1 * !S0)	0.00024	0.00030	0.00054
	(CK * !D1 * S0)	0.00011	0.00012	0.00012
	(CK * !D1 * S0)	0.00001	0.00001	0.00001
	(CK * !D1 * S0)	-0.00001	-0.00001	-0.00001
	(CK * !D1 * S0)	-0.00024	-0.00024	-0.00023
	(CK * !D1 * !S0)	0.00123	0.00129	0.00153
	(CK * !D1 * !S0)	-0.00016	-0.00016	-0.00016
	(CK * !D1 * !S0)	0.00012	0.00012	0.00012
	(CK * !D1 * !S0)	0.00023	0.00030	0.00054
	(!CK * D1 * S0)	0.00011	0.00012	0.00012
	(!CK * D1 * S0)	0.00001	0.00001	0.00001
	(!CK * D1 * S0)	-0.00001	-0.00001	-0.00001
	(!CK * D1 * S0)	-0.00024	-0.00024	-0.00023
	(!CK * D1 * !S0)	0.00212	0.00219	0.00242
	(!CK * D1 * !S0)	-0.00016	-0.00016	-0.00015
	(!CK * D1 * !S0)	0.00012	0.00013	0.00013
	(!CK * D1 * !S0)	0.00112	0.00118	0.00142
	(!CK * !D1 * S0)	0.00011	0.00011	0.00012
	(!CK * !D1 * S0)	0.00001	0.00002	0.00002
	(!CK * !D1 * S0)	-0.00001	-0.00001	-0.00001
	(!CK * !D1 * S0)	-0.00024	-0.00024	-0.00023
	(!CK * !D1 * !S0)	0.00212	0.00219	0.00242
	(!CK * !D1 * !S0)	-0.00016	-0.00015	-0.00015
	(!CK * !D1 * !S0)	0.00013	0.00013	0.00013
	(!CK * !D1 * !S0)	0.00112	0.00118	0.00141

Passive power(pJ) for D1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7R	**(CK * D0 * S0)**	-0.00006	-0.00001	0.00020
	(CK * D0 * S0)	0.00016	0.00016	0.00016
	(CK * D0 * S0)	-0.00012	-0.00012	-0.00012
	(CK * D0 * S0)	0.00096	0.00101	0.00122
	(CK * D0 * !S0)	-0.00015	-0.00014	-0.00013
	(CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(CK * D0 * !S0)	0.00001	0.00001	0.00001
	(CK * D0 * !S0)	0.00024	0.00024	0.00025
	(CK * !D0 * S0)	-0.00006	-0.00001	0.00021
	(CK * !D0 * S0)	0.00016	0.00016	0.00016
	(CK * !D0 * S0)	-0.00012	-0.00012	-0.00012
	(CK * !D0 * S0)	0.00096	0.00101	0.00122
	(CK * !D0 * !S0)	-0.00019	-0.00018	-0.00017
	(CK * !D0 * !S0)	-0.00002	-0.00001	-0.00001
	(CK * !D0 * !S0)	0.00000	0.00001	0.00001
	(CK * !D0 * !S0)	0.00020	0.00021	0.00021
	(!CK * D0 * S0)	0.00142	0.00147	0.00168
	(!CK * D0 * S0)	0.00015	0.00016	0.00016
	(!CK * D0 * S0)	-0.00013	-0.00013	-0.00013
	(!CK * D0 * S0)	0.00245	0.00251	0.00271
	(!CK * D0 * !S0)	-0.00015	-0.00014	-0.00013
	(!CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(!CK * D0 * !S0)	0.00001	0.00001	0.00001
	(!CK * D0 * !S0)	0.00024	0.00024	0.00024
	(!CK * !D0 * S0)	0.00142	0.00147	0.00168
	(!CK * !D0 * S0)	0.00015	0.00016	0.00016
	(!CK * !D0 * S0)	-0.00013	-0.00013	-0.00013
	(!CK * !D0 * S0)	0.00245	0.00251	0.00271
	(!CK * !D0 * !S0)	-0.00019	-0.00018	-0.00017
	(!CK * !D0 * !S0)	-0.00002	-0.00002	-0.00001
	(!CK * !D0 * !S0)	0.00001	0.00001	0.00001
	(!CK * !D0 * !S0)	0.00020	0.00021	0.00021

Passive power(pJ) for D1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7R	**(CK * D0 * S0)**	0.00141	0.00147	0.00170
	(CK * D0 * S0)	-0.00016	-0.00016	-0.00016
	(CK * D0 * S0)	0.00012	0.00012	0.00012
	(CK * D0 * S0)	0.00039	0.00045	0.00068
	(CK * D0 * !S0)	0.00015	0.00015	0.00016
	(CK * D0 * !S0)	0.00001	0.00001	0.00001
	(CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(CK * D0 * !S0)	-0.00024	-0.00023	-0.00023
	(CK * !D0 * S0)	0.00141	0.00147	0.00170
	(CK * !D0 * S0)	-0.00016	-0.00016	-0.00016
	(CK * !D0 * S0)	0.00012	0.00012	0.00012
	(CK * !D0 * S0)	0.00039	0.00045	0.00068
	(CK * !D0 * !S0)	0.00019	0.00019	0.00020
	(CK * !D0 * !S0)	0.00001	0.00001	0.00002
	(CK * !D0 * !S0)	-0.00001	-0.00001	-0.00000
	(CK * !D0 * !S0)	-0.00020	-0.00019	-0.00018
	(!CK * D0 * S0)	0.00231	0.00237	0.00259
	(!CK * D0 * S0)	-0.00016	-0.00016	-0.00015
	(!CK * D0 * S0)	0.00013	0.00013	0.00013
	(!CK * D0 * S0)	0.00128	0.00134	0.00156
	(!CK * D0 * !S0)	0.00015	0.00015	0.00015
	(!CK * D0 * !S0)	0.00001	0.00001	0.00001
	(!CK * D0 * !S0)	-0.00001	-0.00001	-0.00001
	(!CK * D0 * !S0)	-0.00024	-0.00023	-0.00022
	(!CK * !D0 * S0)	0.00231	0.00237	0.00259
	(!CK * !D0 * S0)	-0.00016	-0.00016	-0.00015
	(!CK * !D0 * S0)	0.00013	0.00013	0.00013
	(!CK * !D0 * S0)	0.00128	0.00134	0.00156
	(!CK * !D0 * !S0)	0.00019	0.00019	0.00020
	(!CK * !D0 * !S0)	0.00001	0.00002	0.00002
	(!CK * !D0 * !S0)	-0.00001	-0.00001	-0.00001
	(!CK * !D0 * !S0)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7R	**(CK * D0 * D1)**	-0.00013	-0.00000	0.00048
	(CK * D0 * D1)	0.00003	0.00003	0.00003
	(CK * D0 * D1)	-0.00002	-0.00002	-0.00001
	(CK * D0 * D1)	0.00108	0.00121	0.00169
	(CK * D0 * !D1)	0.00105	0.00118	0.00164
	(CK * D0 * !D1)	-0.00010	-0.00009	-0.00008
	(CK * D0 * !D1)	0.00006	0.00007	0.00010
	(CK * D0 * !D1)	0.00177	0.00189	0.00235
	(CK * !D0 * D1)	-0.00020	0.00005	0.00096
	(CK * !D0 * D1)	0.00016	0.00016	0.00016
	(CK * !D0 * D1)	-0.00012	-0.00012	-0.00011
	(CK * !D0 * D1)	0.00151	0.00176	0.00267
	(CK * !D0 * !D1)	-0.00013	0.00001	0.00049
	(CK * !D0 * !D1)	0.00002	0.00003	0.00003
	(CK * !D0 * !D1)	-0.00002	-0.00002	-0.00001
	(CK * !D0 * !D1)	0.00108	0.00122	0.00171
	(!CK * D0 * D1)	-0.00013	-0.00000	0.00048
	(!CK * D0 * D1)	0.00003	0.00003	0.00003
	(!CK * D0 * D1)	-0.00002	-0.00002	-0.00001
	(!CK * D0 * D1)	0.00108	0.00121	0.00169
	(!CK * D0 * !D1)	0.00194	0.00206	0.00253
	(!CK * D0 * !D1)	-0.00010	-0.00009	-0.00008
	(!CK * D0 * !D1)	0.00006	0.00008	0.00010
	(!CK * D0 * !D1)	0.00263	0.00276	0.00324
	(!CK * !D0 * D1)	0.00129	0.00152	0.00238
	(!CK * !D0 * D1)	0.00015	0.00015	0.00016
	(!CK * !D0 * D1)	-0.00013	-0.00012	-0.00011
	(!CK * !D0 * D1)	0.00302	0.00325	0.00411
	(!CK * !D0 * !D1)	-0.00013	0.00001	0.00049
	(!CK * !D0 * !D1)	0.00002	0.00003	0.00003
	(!CK * !D0 * !D1)	-0.00002	-0.00002	-0.00002
	(!CK * !D0 * !D1)	0.00109	0.00122	0.00171

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MDFFQX2H7R	**(CK * D0 * D1)**	0.00115	0.00130	0.00183
	(CK * D0 * D1)	-0.00003	-0.00003	-0.00003
	(CK * D0 * D1)	0.00002	0.00002	0.00003
	(CK * D0 * D1)	-0.00007	0.00008	0.00061
	(CK * D0 * !D1)	0.00148	0.00162	0.00215
	(CK * D0 * !D1)	0.00008	0.00010	0.00012
	(CK * D0 * !D1)	-0.00008	-0.00007	-0.00006
	(CK * D0 * !D1)	0.00076	0.00091	0.00144
	(CK * !D0 * D1)	0.00191	0.00220	0.00318
	(CK * !D0 * D1)	-0.00016	-0.00016	-0.00015
	(CK * !D0 * D1)	0.00011	0.00012	0.00012
	(CK * !D0 * D1)	0.00021	0.00049	0.00146
	(CK * !D0 * !D1)	0.00115	0.00129	0.00182
	(CK * !D0 * !D1)	-0.00003	-0.00003	-0.00002
	(CK * !D0 * !D1)	0.00002	0.00002	0.00003
	(CK * !D0 * !D1)	-0.00007	0.00008	0.00060
	(!CK * D0 * D1)	0.00115	0.00130	0.00183
	(!CK * D0 * D1)	-0.00003	-0.00003	-0.00003
	(!CK * D0 * D1)	0.00001	0.00002	0.00003
	(!CK * D0 * D1)	-0.00007	0.00009	0.00061
	(!CK * D0 * !D1)	0.00293	0.00309	0.00363
	(!CK * D0 * !D1)	0.00008	0.00009	0.00011
	(!CK * D0 * !D1)	-0.00009	-0.00008	-0.00006
	(!CK * D0 * !D1)	0.00223	0.00239	0.00293
	(!CK * !D0 * D1)	0.00283	0.00309	0.00401
	(!CK * !D0 * D1)	-0.00016	-0.00015	-0.00015
	(!CK * !D0 * D1)	0.00011	0.00013	0.00014
	(!CK * !D0 * D1)	0.00110	0.00136	0.00229
	(!CK * !D0 * !D1)	0.00115	0.00130	0.00182
	(!CK * !D0 * !D1)	-0.00003	-0.00003	-0.00002
	(!CK * !D0 * !D1)	0.00002	0.00002	0.00002
	(!CK * !D0 * !D1)	-0.00007	0.00008	0.00060

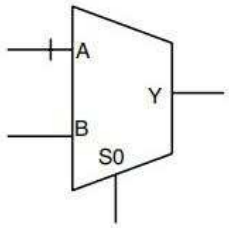
MUX2X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X0P5H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X0P5H7R	0.00059	0.00070	0.00178	0.04273

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X0P5H7R	0.00000	0.29386	0.41575

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X0P5H7R	A->Y (RR)	-	0.04521	0.18735	0.53476
	B->Y (RR)	-	0.04536	0.18752	0.53482
	S0->Y (RR)	(!A * B)	0.03852	0.17580	0.51272
	S0->Y (FR)	(A * !B)	0.06142	0.20693	0.56540

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X0P5H7R	A->Y (FF)	-	0.05408	0.17384	0.46401
	B->Y (FF)	-	0.05638	0.17531	0.46458
	S0->Y (FF)	(!A * B)	0.04551	0.16314	0.45064
	S0->Y (RF)	(A * !B)	0.06475	0.16831	0.40810

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X0P5H7R	A	-	0.00049	0.00056	0.00076
	A	-	0.00007	0.00007	0.00007
	A	-	-0.00006	-0.00006	-0.00006
	A	-	0.00122	0.00129	0.00148
	B	-	0.00034	0.00041	0.00059
	B	-	0.00007	0.00007	0.00007
	B	-	-0.00006	-0.00006	-0.00006
	B	-	0.00113	0.00120	0.00138
	S0	(A * !B)	0.00147	0.00161	0.00206
	S0	(A * !B)	0.00005	0.00005	0.00005
	S0	(A * !B)	-0.00003	-0.00002	0.00000
	S0	(A * !B)	0.00078	0.00094	0.00138
	S0	(!A * B)	0.00025	0.00047	0.00121
	S0	(!A * B)	0.00009	0.00009	0.00009
	S0	(!A * B)	-0.00007	-0.00005	-0.00005
	S0	(!A * B)	0.00168	0.00191	0.00264

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X0P5H7R	A	-	0.00107	0.00114	0.00135
	A	-	-0.00007	-0.00007	-0.00007
	A	-	0.00006	0.00006	0.00006
	A	-	0.00034	0.00040	0.00062
	B	-	0.00123	0.00130	0.00150
	B	-	-0.00007	-0.00007	-0.00007
	B	-	0.00006	0.00006	0.00006
	B	-	0.00044	0.00051	0.00071
	S0	(A * !B)	0.00094	0.00106	0.00145
	S0	(A * !B)	-0.00003	-0.00002	-0.00002
	S0	(A * !B)	0.00004	0.00005	0.00005
	S0	(A * !B)	0.00162	0.00175	0.00214
	S0	(!A * B)	0.00156	0.00182	0.00262
	S0	(!A * B)	-0.00008	-0.00006	-0.00005
	S0	(!A * B)	0.00008	0.00008	0.00008
	S0	(!A * B)	0.00015	0.00039	0.00119

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7R	(B * S0 * Y) + (!B * S0 * !Y)	-0.00008	-0.00008	-0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	0.00001	0.00001	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7R	(B * S0 * Y) + (!B * S0 * !Y)	0.00008	0.00009	0.00009
	(B * S0 * Y) + (!B * S0 * !Y)	0.00001	0.00001	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00010	-0.00010	-0.00009
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00024	0.00024	0.00025

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00011	0.00011	0.00011
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00024	-0.00023	-0.00023

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7R	(A * B * Y)	-0.00010	0.00001	0.00040
	(A * B * Y)	0.00002	0.00002	0.00002
	(A * B * Y)	-0.00002	-0.00001	-0.00000
	(A * B * Y)	0.00097	0.00108	0.00147
	(!A * !B * !Y)	-0.00012	-0.00001	0.00039
	(!A * !B * !Y)	0.00001	0.00002	0.00003
	(!A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * !Y)	0.00094	0.00105	0.00145

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P5H7R	(A * B * Y)	0.00082	0.00095	0.00138
	(A * B * Y)	-0.00002	-0.00002	-0.00002
	(A * B * Y)	0.00000	0.00001	0.00002
	(A * B * Y)	-0.00024	-0.00011	0.00032
	(!A * !B * !Y)	0.00084	0.00096	0.00140
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00000
	(!A * !B * !Y)	0.00001	0.00001	0.00002
	(!A * !B * !Y)	-0.00022	-0.00009	0.00034

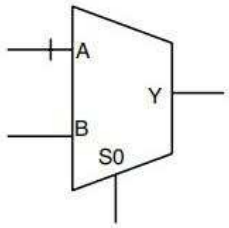
MUX2X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X0P7H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X0P7H7R	0.00059	0.00070	0.00177	0.04843

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X0P7H7R	0.00000	0.30619	0.42270

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X0P7H7R	A->Y (RR)	-	0.04443	0.18709	0.53535
	B->Y (RR)	-	0.04467	0.18731	0.53583
	S0->Y (RR)	(!A * B)	0.03777	0.17572	0.51364
	S0->Y (FR)	(A * !B)	0.06066	0.20638	0.56496

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X0P7H7R	A->Y (FF)	-	0.05356	0.17391	0.46436
	B->Y (FF)	-	0.05596	0.17545	0.46532
	S0->Y (FF)	(!A * B)	0.04504	0.16339	0.45161
	S0->Y (RF)	(A * !B)	0.06417	0.16815	0.40787

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X0P7H7R	A	-	0.00051	0.00059	0.00077
	A	-	0.00006	0.00006	0.00007
	A	-	-0.00006	-0.00005	-0.00005
	A	-	0.00123	0.00131	0.00149
	B	-	0.00036	0.00044	0.00063
	B	-	0.00006	0.00006	0.00006
	B	-	-0.00006	-0.00006	-0.00005
	B	-	0.00115	0.00122	0.00140
	S0	(A * !B)	0.00149	0.00163	0.00209
	S0	(A * !B)	0.00004	0.00005	0.00005
	S0	(A * !B)	-0.00004	-0.00002	-0.00002
	S0	(A * !B)	0.00081	0.00096	0.00140
	S0	(!A * B)	0.00027	0.00050	0.00124
	S0	(!A * B)	0.00009	0.00009	0.00009
	S0	(!A * B)	-0.00007	-0.00005	-0.00005
	S0	(!A * B)	0.00169	0.00192	0.00267

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X0P7H7R	A	-	0.00108	0.00116	0.00137
	A	-	-0.00007	-0.00006	-0.00005
	A	-	0.00005	0.00005	0.00006
	A	-	0.00036	0.00043	0.00065
	B	-	0.00125	0.00132	0.00152
	B	-	-0.00006	-0.00006	-0.00006
	B	-	0.00005	0.00006	0.00006
	B	-	0.00046	0.00053	0.00074
	S0	(A * !B)	0.00095	0.00108	0.00147
	S0	(A * !B)	-0.00002	-0.00002	0.00001
	S0	(A * !B)	0.00004	0.00004	0.00004
	S0	(A * !B)	0.00164	0.00177	0.00216
	S0	(!A * B)	0.00160	0.00185	0.00265
	S0	(!A * B)	-0.00006	-0.00006	-0.00005
	S0	(!A * B)	0.00007	0.00007	0.00007
	S0	(!A * B)	0.00018	0.00042	0.00123

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7R	(B * S0 * Y) + (!B * S0 * !Y)	-0.00008	-0.00008	-0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	0.00001	0.00001	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7R	(B * S0 * Y) + (!B * S0 * !Y)	0.00008	0.00009	0.00009
	(B * S0 * Y) + (!B * S0 * !Y)	0.00001	0.00001	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00010	-0.00010	-0.00009
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00024	0.00024	0.00025

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00010	0.00011	0.00011
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00024	-0.00023	-0.00023

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7R	(A * B * Y)	-0.00010	0.00001	0.00040
	(A * B * Y)	0.00002	0.00002	0.00002
	(A * B * Y)	-0.00002	-0.00001	-0.00000
	(A * B * Y)	0.00097	0.00108	0.00147
	(!A * !B * !Y)	-0.00012	-0.00001	0.00039
	(!A * !B * !Y)	0.00001	0.00002	0.00003
	(!A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * !Y)	0.00094	0.00105	0.00145

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X0P7H7R	(A * B * Y)	0.00083	0.00095	0.00138
	(A * B * Y)	-0.00002	-0.00002	-0.00002
	(A * B * Y)	0.00000	0.00001	0.00002
	(A * B * Y)	-0.00024	-0.00011	0.00032
	(!A * !B * !Y)	0.00084	0.00097	0.00140
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * !Y)	0.00001	0.00001	0.00001
	(!A * !B * !Y)	-0.00022	-0.00009	0.00034

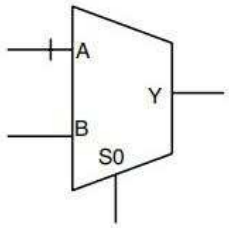
MUX2X12H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X12H7R	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X12H7R	0.00242	0.00254	0.00419	0.47250

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X12H7R	0.00000	2.45755	3.46068

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X12H7R	A->Y (RR)	-	0.04249	0.19293	0.55388
	B->Y (RR)	-	0.03873	0.18908	0.54836
	S0->Y (RR)	(!A * B)	0.03457	0.18175	0.53228
	S0->Y (FR)	(A * !B)	0.05416	0.21297	0.58869

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X12H7R	A->Y (FF)	-	0.04674	0.17930	0.48401
	B->Y (FF)	-	0.04797	0.17839	0.47977
	S0->Y (FF)	(!A * B)	0.04366	0.17360	0.47526
	S0->Y (RF)	(A * !B)	0.05043	0.17406	0.43757

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X12H7R	A	-	0.00398	0.00458	0.00694
	A	-	0.00020	0.00021	0.00022
	A	-	-0.00019	-0.00019	-0.00019
	A	-	0.00687	0.00747	0.00984
	B	-	0.00310	0.00370	0.00608
	B	-	0.00020	0.00021	0.00023
	B	-	-0.00019	-0.00019	-0.00018
	B	-	0.00604	0.00665	0.00903
	S0	(A * !B)	0.00708	0.00785	0.00982
	S0	(A * !B)	-0.00005	-0.00004	-0.00002
	S0	(A * !B)	0.00000	0.00001	0.00003
	S0	(A * !B)	0.00515	0.00594	0.00795
	S0	(!A * B)	0.00329	0.00404	0.00705
	S0	(!A * B)	0.00003	0.00004	0.00006
	S0	(!A * B)	-0.00005	-0.00005	-0.00004
	S0	(!A * B)	0.00642	0.00718	0.01019

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X12H7R	A	-	0.00693	0.00754	0.01039
	A	-	-0.00022	-0.00021	-0.00019
	A	-	0.00019	0.00019	0.00021
	A	-	0.00405	0.00463	0.00749
	B	-	0.00746	0.00807	0.01090
	B	-	-0.00023	-0.00021	-0.00020
	B	-	0.00018	0.00019	0.00019
	B	-	0.00450	0.00511	0.00795
	S0	(A * !B)	0.00598	0.00686	0.00903
	S0	(A * !B)	0.00002	0.00004	0.00005
	S0	(A * !B)	-0.00002	-0.00001	0.00002
	S0	(A * !B)	0.00790	0.00879	0.01121
	S0	(!A * B)	0.00701	0.00779	0.01119
	S0	(!A * B)	-0.00005	-0.00004	-0.00002
	S0	(!A * B)	0.00004	0.00005	0.00006
	S0	(!A * B)	0.00389	0.00464	0.00806

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7R	(B * S0 * Y) + (!B * S0 * !Y)	-0.00032	0.00023	0.00215
	(B * S0 * Y) + (!B * S0 * !Y)	0.00021	0.00022	0.00024
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00017	-0.00017	-0.00017
	(B * S0 * Y) + (!B * S0 * !Y)	0.00198	0.00253	0.00446

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7R	(B * S0 * Y) + (!B * S0 * !Y)	0.00233	0.00294	0.00498
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00022	-0.00021	-0.00021
	(B * S0 * Y) + (!B * S0 * !Y)	0.00017	0.00017	0.00017
	(B * S0 * Y) + (!B * S0 * !Y)	0.00004	0.00064	0.00267

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00015	0.00041	0.00237
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00021	0.00022	0.00024
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00017	-0.00017	-0.00017
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00218	0.00276	0.00472

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00196	0.00258	0.00467
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00022	-0.00021	-0.00020
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00017	0.00017	0.00017
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00037	0.00024	0.00232

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7R	(A * B * Y)	-0.00019	-0.00001	0.00066
	(A * B * Y)	0.00003	0.00004	0.00004
	(A * B * Y)	-0.00003	-0.00002	0.00000
	(A * B * Y)	0.00234	0.00252	0.00320
	(!A * !B * !Y)	-0.00008	0.00011	0.00080
	(!A * !B * !Y)	0.00003	0.00004	0.00007
	(!A * !B * !Y)	-0.00003	-0.00003	-0.00002
	(!A * !B * !Y)	0.00244	0.00263	0.00333

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X12H7R	(A * B * Y)	0.00233	0.00255	0.00332
	(A * B * Y)	-0.00004	-0.00003	-0.00000
	(A * B * Y)	0.00002	0.00004	0.00007
	(A * B * Y)	-0.00021	0.00001	0.00078
	(!A * !B * !Y)	0.00219	0.00241	0.00317
	(!A * !B * !Y)	-0.00004	-0.00003	-0.00001
	(!A * !B * !Y)	0.00002	0.00003	0.00005
	(!A * !B * !Y)	-0.00032	-0.00011	0.00064

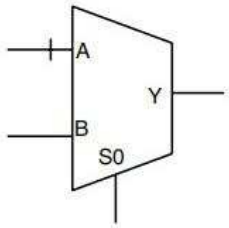
MUX2X16H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X16H7R	12.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X16H7R	0.00323	0.00343	0.00550	0.63825

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X16H7R	0.00000	3.23170	4.54779

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X16H7R	A->Y (RR)	-	0.04496	0.19686	0.55981
	B->Y (RR)	-	0.03990	0.19189	0.55417
	S0->Y (RR)	(!A * B)	0.03639	0.18547	0.53990
	S0->Y (FR)	(A * !B)	0.06181	0.22554	0.61181

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X16H7R	A->Y (FF)	-	0.04821	0.18325	0.49236
	B->Y (FF)	-	0.04994	0.18237	0.48766
	S0->Y (FF)	(!A * B)	0.04588	0.17668	0.48001
	S0->Y (RF)	(A * !B)	0.05529	0.18498	0.46140

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X16H7R	A	-	0.00551	0.00627	0.00948
	A	-	0.00027	0.00029	0.00032
	A	-	-0.00027	-0.00025	-0.00014
	A	-	0.00956	0.01034	0.01354
	B	-	0.00427	0.00508	0.00830
	B	-	0.00028	0.00029	0.00030
	B	-	-0.00027	-0.00025	-0.00021
	B	-	0.00834	0.00913	0.01235
	S0	(A * !B)	0.00990	0.01091	0.01351
	S0	(A * !B)	-0.00005	-0.00003	0.00000
	S0	(A * !B)	-0.00001	0.00001	0.00012
	S0	(A * !B)	0.00747	0.00852	0.01102
	S0	(!A * B)	0.00450	0.00541	0.00922
	S0	(!A * B)	0.00002	0.00004	0.00007
	S0	(!A * B)	-0.00006	-0.00005	0.00002
	S0	(!A * B)	0.00855	0.00950	0.01331

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X16H7R	A	-	0.00989	0.01072	0.01456
	A	-	-0.00031	-0.00029	-0.00027
	A	-	0.00025	0.00026	0.00027
	A	-	0.00582	0.00665	0.01051
	B	-	0.01054	0.01136	0.01520
	B	-	-0.00030	-0.00029	-0.00027
	B	-	0.00025	0.00026	0.00027
	B	-	0.00651	0.00730	0.01114
	S0	(A * !B)	0.00864	0.00986	0.01269
	S0	(A * !B)	0.00000	0.00004	0.00009
	S0	(A * !B)	-0.00002	-0.00000	0.00005
	S0	(A * !B)	0.01102	0.01225	0.01533
	S0	(!A * B)	0.00977	0.01073	0.01499
	S0	(!A * B)	-0.00005	-0.00004	0.00001
	S0	(!A * B)	0.00004	0.00006	0.00007
	S0	(!A * B)	0.00569	0.00663	0.01092

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7R	(B * S0 * Y) + (!B * S0 * !Y)	-0.00042	0.00029	0.00281
	(B * S0 * Y) + (!B * S0 * !Y)	0.00027	0.00029	0.00029
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00023	-0.00023	-0.00023
	(B * S0 * Y) + (!B * S0 * !Y)	0.00278	0.00350	0.00603

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7R	(B * S0 * Y) + (!B * S0 * !Y)	0.00332	0.00410	0.00678
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00029	-0.00029	-0.00027
	(B * S0 * Y) + (!B * S0 * !Y)	0.00023	0.00023	0.00023
	(B * S0 * Y) + (!B * S0 * !Y)	0.00011	0.00089	0.00356

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00014	0.00059	0.00314
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00028	0.00029	0.00029
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00023	-0.00023	-0.00022
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00306	0.00379	0.00634

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00286	0.00365	0.00637
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00029	-0.00029	-0.00028
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00023	0.00023	0.00023
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00034	0.00045	0.00316

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7R	(A * B * Y)	-0.00021	-0.00004	0.00056
	(A * B * Y)	0.00004	0.00004	0.00005
	(A * B * Y)	-0.00005	-0.00003	-0.00002
	(A * B * Y)	0.00303	0.00320	0.00380
	(!A * !B * !Y)	-0.00017	0.00001	0.00062
	(!A * !B * !Y)	0.00001	0.00004	0.00005
	(!A * !B * !Y)	-0.00004	-0.00002	0.00001
	(!A * !B * !Y)	0.00306	0.00322	0.00385

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X16H7R	(A * B * Y)	0.00295	0.00316	0.00384
	(A * B * Y)	-0.00004	-0.00004	-0.00004
	(A * B * Y)	0.00002	0.00003	0.00005
	(A * B * Y)	-0.00028	-0.00009	0.00060
	(!A * !B * !Y)	0.00289	0.00308	0.00377
	(!A * !B * !Y)	-0.00004	-0.00003	-0.00000
	(!A * !B * !Y)	0.00002	0.00003	0.00004
	(!A * !B * !Y)	-0.00033	-0.00014	0.00054

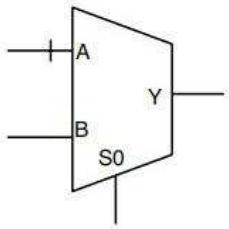
MUX2X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X1H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X1H7R	0.00059	0.00070	0.00178	0.05780

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X1H7R	0.00000	0.32378	0.43365

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X1H7R	A->Y (RR)	-	0.04376	0.18750	0.53789
	B->Y (RR)	-	0.04396	0.18772	0.53788
	S0->Y (RR)	(!A * B)	0.03707	0.17627	0.51647
	S0->Y (FR)	(A * !B)	0.05992	0.20633	0.56564

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X1H7R	A->Y (FF)	-	0.05349	0.17672	0.47340
	B->Y (FF)	-	0.05587	0.17828	0.47477
	S0->Y (FF)	(!A * B)	0.04500	0.16637	0.46086
	S0->Y (RF)	(A * !B)	0.06403	0.17057	0.41559

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X1H7R	A	-	0.00055	0.00063	0.00084
	A	-	0.00006	0.00006	0.00006
	A	-	-0.00005	-0.00005	-0.00003
	A	-	0.00125	0.00134	0.00153
	B	-	0.00040	0.00047	0.00067
	B	-	0.00006	0.00006	0.00006
	B	-	-0.00005	-0.00005	-0.00005
	B	-	0.00118	0.00125	0.00144
	S0	(A * !B)	0.00152	0.00167	0.00212
	S0	(A * !B)	0.00004	0.00004	0.00004
	S0	(A * !B)	-0.00004	-0.00002	-0.00001
	S0	(A * !B)	0.00084	0.00098	0.00143
	S0	(!A * B)	0.00030	0.00053	0.00129
	S0	(!A * B)	0.00007	0.00008	0.00008
	S0	(!A * B)	-0.00007	-0.00005	-0.00001
	S0	(!A * B)	0.00170	0.00195	0.00271

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X1H7R	A	-	0.00112	0.00119	0.00142
	A	-	-0.00006	-0.00006	-0.00006
	A	-	0.00005	0.00005	0.00005
	A	-	0.00040	0.00047	0.00071
	B	-	0.00128	0.00135	0.00157
	B	-	-0.00006	-0.00006	-0.00006
	B	-	0.00005	0.00005	0.00005
	B	-	0.00050	0.00058	0.00080
	S0	(A * !B)	0.00099	0.00112	0.00150
	S0	(A * !B)	-0.00002	-0.00001	0.00001
	S0	(A * !B)	0.00001	0.00004	0.00004
	S0	(A * !B)	0.00168	0.00181	0.00223
	S0	(!A * B)	0.00163	0.00188	0.00270
	S0	(!A * B)	-0.00006	-0.00006	-0.00004
	S0	(!A * B)	0.00007	0.00007	0.00007
	S0	(!A * B)	0.00021	0.00046	0.00128

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7R	(B * S0 * Y) + (!B * S0 * !Y)	-0.00008	-0.00008	-0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	0.00001	0.00001	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7R	(B * S0 * Y) + (!B * S0 * !Y)	0.00008	0.00009	0.00009
	(B * S0 * Y) + (!B * S0 * !Y)	0.00001	0.00001	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00010	-0.00010	-0.00009
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00024	0.00024	0.00025

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00010	0.00011	0.00011
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00024	-0.00024	-0.00023

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7R	(A * B * Y)	-0.00010	0.00001	0.00040
	(A * B * Y)	0.00002	0.00002	0.00002
	(A * B * Y)	-0.00002	-0.00001	-0.00000
	(A * B * Y)	0.00097	0.00108	0.00147
	(!A * !B * !Y)	-0.00012	-0.00001	0.00039
	(!A * !B * !Y)	0.00002	0.00002	0.00003
	(!A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * !Y)	0.00094	0.00105	0.00145

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1H7R	(A * B * Y)	0.00083	0.00095	0.00138
	(A * B * Y)	-0.00002	-0.00002	-0.00002
	(A * B * Y)	0.00000	0.00001	0.00002
	(A * B * Y)	-0.00024	-0.00012	0.00032
	(!A * !B * !Y)	0.00084	0.00096	0.00140
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * !Y)	0.00001	0.00001	0.00002
	(!A * !B * !Y)	-0.00022	-0.00009	0.00034

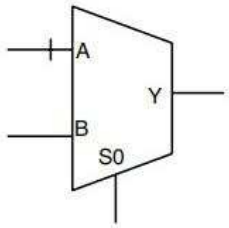
MUX2X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X1P4H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X1P4H7R	0.00059	0.00071	0.00178	0.06592

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X1P4H7R	0.00000	0.34058	0.44321

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X1P4H7R	A->Y (RR)	-	0.04337	0.18775	0.53901
	B->Y (RR)	-	0.04359	0.18799	0.53937
	S0->Y (RR)	(!A * B)	0.03671	0.17677	0.51869
	S0->Y (FR)	(A * !B)	0.05947	0.20618	0.56519

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X1P4H7R	A->Y (FF)	-	0.05337	0.17730	0.47481
	B->Y (FF)	-	0.05574	0.17888	0.47571
	S0->Y (FF)	(!A * B)	0.04493	0.16717	0.46241
	S0->Y (RF)	(A * !B)	0.06378	0.17082	0.41574

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X1P4H7R	A	-	0.00058	0.00065	0.00086
	A	-	0.00005	0.00006	0.00006
	A	-	-0.00005	-0.00005	-0.00002
	A	-	0.00127	0.00136	0.00157
	B	-	0.00043	0.00051	0.00072
	B	-	0.00005	0.00005	0.00005
	B	-	-0.00005	-0.00005	-0.00005
	B	-	0.00120	0.00128	0.00148
	S0	(A * !B)	0.00155	0.00170	0.00214
	S0	(A * !B)	0.00004	0.00004	0.00004
	S0	(A * !B)	-0.00002	-0.00002	-0.00001
	S0	(A * !B)	0.00085	0.00100	0.00145
	S0	(!A * B)	0.00034	0.00056	0.00133
	S0	(!A * B)	0.00008	0.00008	0.00008
	S0	(!A * B)	-0.00007	-0.00004	-0.00002
	S0	(!A * B)	0.00174	0.00198	0.00275

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X1P4H7R	A	-	0.00115	0.00122	0.00146
	A	-	-0.00006	-0.00006	-0.00005
	A	-	0.00005	0.00005	0.00005
	A	-	0.00043	0.00051	0.00075
	B	-	0.00131	0.00138	0.00161
	B	-	-0.00005	-0.00005	-0.00005
	B	-	0.00005	0.00005	0.00005
	B	-	0.00054	0.00061	0.00084
	S0	(A * !B)	0.00101	0.00114	0.00153
	S0	(A * !B)	-0.00001	-0.00001	-0.00001
	S0	(A * !B)	0.00003	0.00004	0.00004
	S0	(A * !B)	0.00172	0.00185	0.00228
	S0	(!A * B)	0.00166	0.00191	0.00275
	S0	(!A * B)	-0.00005	-0.00005	-0.00005
	S0	(!A * B)	0.00007	0.00007	0.00007
	S0	(!A * B)	0.00025	0.00050	0.00134

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7R	(B * S0 * Y) + (!B * S0 * !Y)	-0.00008	-0.00008	-0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	0.00001	0.00001	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7R	(B * S0 * Y) + (!B * S0 * !Y)	0.00008	0.00009	0.00009
	(B * S0 * Y) + (!B * S0 * !Y)	0.00001	0.00001	0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00010	-0.00010	-0.00009
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00024	0.00025	0.00025

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00010	0.00011	0.00011
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00024	-0.00024	-0.00023

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7R	(A * B * Y)	-0.00010	0.00001	0.00040
	(A * B * Y)	0.00002	0.00002	0.00002
	(A * B * Y)	-0.00003	-0.00002	-0.00001
	(A * B * Y)	0.00097	0.00108	0.00147
	(!A * !B * !Y)	-0.00012	-0.00001	0.00039
	(!A * !B * !Y)	0.00002	0.00002	0.00003
	(!A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * !Y)	0.00094	0.00105	0.00145

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X1P4H7R	(A * B * Y)	0.00082	0.00095	0.00138
	(A * B * Y)	-0.00002	-0.00002	-0.00002
	(A * B * Y)	0.00001	0.00002	0.00003
	(A * B * Y)	-0.00024	-0.00012	0.00032
	(!A * !B * !Y)	0.00084	0.00097	0.00140
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * !Y)	0.00001	0.00001	0.00002
	(!A * !B * !Y)	-0.00022	-0.00009	0.00034

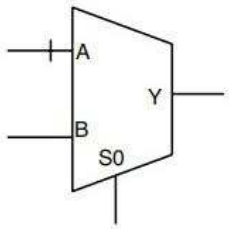
MUX2X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X2H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X2H7R	0.00065	0.00081	0.00167	0.08506

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X2H7R	0.00000	0.55314	0.78796

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X2H7R	A->Y (RR)	-	0.05139	0.20378	0.56921
	B->Y (RR)	-	0.04882	0.19956	0.56025
	S0->Y (RR)	(!A * B)	0.04212	0.18952	0.54204
	S0->Y (FR)	(A * !B)	0.06117	0.21731	0.58927

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X2H7R	A->Y (FF)	-	0.05826	0.19090	0.49842
	B->Y (FF)	-	0.05819	0.18781	0.49053
	S0->Y (FF)	(!A * B)	0.05118	0.18069	0.48464
	S0->Y (RF)	(A * !B)	0.05891	0.17910	0.43756

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X2H7R	A	-	0.00092	0.00104	0.00148
	A	-	0.00005	0.00005	0.00006
	A	-	-0.00005	-0.00005	-0.00003
	A	-	0.00170	0.00184	0.00227
	B	-	0.00066	0.00078	0.00121
	B	-	0.00005	0.00005	0.00006
	B	-	-0.00005	-0.00005	-0.00004
	B	-	0.00151	0.00164	0.00206
	S0	(A * !B)	0.00220	0.00242	0.00308
	S0	(A * !B)	-0.00001	-0.00001	-0.00000
	S0	(A * !B)	0.00000	0.00000	0.00002
	S0	(A * !B)	0.00134	0.00156	0.00223
	S0	(!A * B)	0.00067	0.00088	0.00164
	S0	(!A * B)	0.00003	0.00003	0.00003
	S0	(!A * B)	-0.00003	-0.00003	-0.00002
	S0	(!A * B)	0.00197	0.00219	0.00295

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X2H7R	A	-	0.00175	0.00188	0.00240
	A	-	-0.00006	-0.00005	-0.00004
	A	-	0.00004	0.00005	0.00005
	A	-	0.00095	0.00109	0.00161
	B	-	0.00189	0.00201	0.00252
	B	-	-0.00006	-0.00005	-0.00005
	B	-	0.00004	0.00005	0.00005
	B	-	0.00103	0.00116	0.00167
	S0	(A * !B)	0.00147	0.00170	0.00234
	S0	(A * !B)	0.00000	0.00001	0.00001
	S0	(A * !B)	-0.00000	-0.00000	-0.00000
	S0	(A * !B)	0.00233	0.00255	0.00326
	S0	(!A * B)	0.00226	0.00249	0.00334
	S0	(!A * B)	-0.00003	-0.00003	-0.00001
	S0	(!A * B)	0.00003	0.00003	0.00003
	S0	(!A * B)	0.00094	0.00117	0.00202

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7R	(B * S0 * Y) + (!B * S0 * !Y)	-0.00007	0.00006	0.00049
	(B * S0 * Y) + (!B * S0 * !Y)	0.00004	0.00004	0.00004
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00004	-0.00003	-0.00004
	(B * S0 * Y) + (!B * S0 * !Y)	0.00050	0.00063	0.00106

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7R	(B * S0 * Y) + (!B * S0 * !Y)	0.00059	0.00073	0.00120
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00004	-0.00004	-0.00004
	(B * S0 * Y) + (!B * S0 * !Y)	0.00004	0.00003	0.00004
	(B * S0 * Y) + (!B * S0 * !Y)	0.00002	0.00015	0.00062

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00001	0.00012	0.00056
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00004	0.00005	0.00005
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00004	-0.00003	-0.00003
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00061	0.00074	0.00119

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00047	0.00061	0.00109
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00004	-0.00005	-0.00004
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00003	0.00003	0.00004
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00015	-0.00001	0.00047

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7R	(A * B * Y)	-0.00011	-0.00001	0.00033
	(A * B * Y)	0.00002	0.00002	0.00002
	(A * B * Y)	-0.00003	-0.00002	-0.00001
	(A * B * Y)	0.00098	0.00108	0.00142
	(!A * !B * !Y)	-0.00001	0.00008	0.00043
	(!A * !B * !Y)	0.00001	0.00002	0.00003
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * !Y)	0.00107	0.00117	0.00152

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X2H7R	(A * B * Y)	0.00112	0.00123	0.00162
	(A * B * Y)	-0.00002	-0.00002	-0.00002
	(A * B * Y)	0.00002	0.00002	0.00003
	(A * B * Y)	0.00003	0.00014	0.00052
	(!A * !B * !Y)	0.00102	0.00113	0.00151
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * !Y)	0.00001	0.00002	0.00002
	(!A * !B * !Y)	-0.00007	0.00004	0.00043

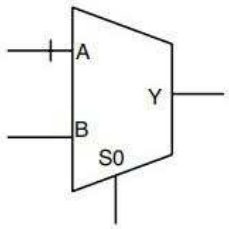
MUX2X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X3H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X3H7R	0.00072	0.00086	0.00178	0.12037

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X3H7R	0.00000	0.70442	0.99652

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X3H7R	A->Y (RR)	-	0.04636	0.19748	0.55939
	B->Y (RR)	-	0.04401	0.19411	0.55473
	S0->Y (RR)	(!A * B)	0.03809	0.18479	0.53541
	S0->Y (FR)	(A * !B)	0.05704	0.21311	0.58463

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X3H7R	A->Y (FF)	-	0.05257	0.18480	0.49174
	B->Y (FF)	-	0.05317	0.18292	0.48523
	S0->Y (FF)	(!A * B)	0.04717	0.17650	0.47898
	S0->Y (RF)	(A * !B)	0.05446	0.17501	0.43425

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X3H7R	A	-	0.00113	0.00129	0.00187
	A	-	0.00006	0.00006	0.00007
	A	-	-0.00006	-0.00006	-0.00005
	A	-	0.00201	0.00218	0.00275
	B	-	0.00083	0.00100	0.00156
	B	-	0.00006	0.00006	0.00007
	B	-	-0.00006	-0.00006	-0.00005
	B	-	0.00177	0.00193	0.00249
	S0	(A * !B)	0.00246	0.00272	0.00349
	S0	(A * !B)	-0.00002	-0.00002	-0.00001
	S0	(A * !B)	0.00000	0.00001	0.00002
	S0	(A * !B)	0.00156	0.00182	0.00257
	S0	(!A * B)	0.00085	0.00110	0.00201
	S0	(!A * B)	0.00002	0.00003	0.00004
	S0	(!A * B)	-0.00003	-0.00003	-0.00002
	S0	(!A * B)	0.00222	0.00248	0.00339

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X3H7R	A	-	0.00202	0.00218	0.00287
	A	-	-0.00006	-0.00006	-0.00006
	A	-	0.00005	0.00006	0.00006
	A	-	0.00113	0.00130	0.00199
	B	-	0.00221	0.00237	0.00305
	B	-	-0.00007	-0.00006	-0.00006
	B	-	0.00005	0.00006	0.00006
	B	-	0.00127	0.00143	0.00211
	S0	(A * !B)	0.00175	0.00202	0.00275
	S0	(A * !B)	0.00001	0.00002	0.00002
	S0	(A * !B)	-0.00001	-0.00001	0.00000
	S0	(A * !B)	0.00265	0.00292	0.00367
	S0	(!A * B)	0.00250	0.00277	0.00380
	S0	(!A * B)	-0.00003	-0.00003	-0.00002
	S0	(!A * B)	0.00002	0.00003	0.00003
	S0	(!A * B)	0.00113	0.00139	0.00242

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7R	(B * S0 * Y) + (!B * S0 * !Y)	-0.00008	0.00007	0.00062
	(B * S0 * Y) + (!B * S0 * !Y)	0.00006	0.00006	0.00006
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00005	-0.00005	-0.00004
	(B * S0 * Y) + (!B * S0 * !Y)	0.00056	0.00072	0.00127

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7R	(B * S0 * Y) + (!B * S0 * !Y)	0.00065	0.00082	0.00140
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00006	-0.00006	-0.00006
	(B * S0 * Y) + (!B * S0 * !Y)	0.00005	0.00005	0.00005
	(B * S0 * Y) + (!B * S0 * !Y)	0.00001	0.00018	0.00076

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00002	0.00014	0.00069
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00005	0.00006	0.00006
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00005	-0.00005	-0.00004
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00067	0.00083	0.00139

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00055	0.00072	0.00131
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00006	-0.00006	-0.00005
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00004	0.00005	0.00005
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00016	0.00002	0.00061

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7R	(A * B * Y)	-0.00011	-0.00001	0.00035
	(A * B * Y)	0.00002	0.00002	0.00002
	(A * B * Y)	-0.00002	-0.00001	0.00000
	(A * B * Y)	0.00103	0.00113	0.00149
	(!A * !B * !Y)	-0.00000	0.00010	0.00046
	(!A * !B * !Y)	0.00001	0.00002	0.00003
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * !Y)	0.00113	0.00123	0.00160

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X3H7R	(A * B * Y)	0.00116	0.00127	0.00168
	(A * B * Y)	-0.00002	-0.00002	-0.00002
	(A * B * Y)	0.00000	0.00002	0.00002
	(A * B * Y)	0.00002	0.00013	0.00053
	(!A * !B * !Y)	0.00105	0.00116	0.00156
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * !Y)	0.00001	0.00002	0.00002
	(!A * !B * !Y)	-0.00009	0.00002	0.00042

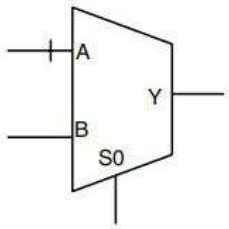
MUX2X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X4H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X4H7R	0.00080	0.00098	0.00192	0.16341

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X4H7R	0.00000	0.87287	1.23862

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X4H7R	A->Y (RR)	-	0.04618	0.19800	0.56184
	B->Y (RR)	-	0.04378	0.19474	0.55685
	S0->Y (RR)	(!A * B)	0.03841	0.18654	0.53988
	S0->Y (FR)	(A * !B)	0.05736	0.21466	0.58837

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X4H7R	A->Y (FF)	-	0.05276	0.18677	0.49527
	B->Y (FF)	-	0.05357	0.18523	0.49097
	S0->Y (FF)	(!A * B)	0.04879	0.18043	0.48673
	S0->Y (RF)	(A * !B)	0.05492	0.17726	0.43872

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X4H7R	A	-	0.00150	0.00170	0.00246
	A	-	0.00006	0.00007	0.00008
	A	-	-0.00007	-0.00006	0.00000
	A	-	0.00248	0.00270	0.00347
	B	-	0.00116	0.00137	0.00211
	B	-	0.00006	0.00007	0.00007
	B	-	-0.00007	-0.00006	-0.00004
	B	-	0.00222	0.00243	0.00317
	S0	(A * !B)	0.00295	0.00324	0.00411
	S0	(A * !B)	-0.00002	-0.00002	-0.00002
	S0	(A * !B)	0.00000	0.00001	0.00003
	S0	(A * !B)	0.00197	0.00227	0.00309
	S0	(!A * B)	0.00117	0.00146	0.00258
	S0	(!A * B)	0.00001	0.00002	0.00003
	S0	(!A * B)	-0.00003	-0.00002	-0.00002
	S0	(!A * B)	0.00265	0.00295	0.00407

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X4H7R	A	-	0.00249	0.00271	0.00363
	A	-	-0.00007	-0.00007	-0.00004
	A	-	0.00006	0.00006	0.00007
	A	-	0.00150	0.00170	0.00262
	B	-	0.00272	0.00291	0.00382
	B	-	-0.00007	-0.00007	-0.00006
	B	-	0.00006	0.00006	0.00007
	B	-	0.00165	0.00185	0.00276
	S0	(A * !B)	0.00218	0.00251	0.00334
	S0	(A * !B)	0.00002	0.00002	0.00005
	S0	(A * !B)	-0.00003	-0.00001	0.00000
	S0	(A * !B)	0.00318	0.00348	0.00431
	S0	(!A * B)	0.00296	0.00328	0.00455
	S0	(!A * B)	-0.00003	-0.00002	0.00000
	S0	(!A * B)	0.00002	0.00002	0.00003
	S0	(!A * B)	0.00150	0.00179	0.00306

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7R	(B * S0 * Y) + (!B * S0 * !Y)	-0.00010	0.00009	0.00074
	(B * S0 * Y) + (!B * S0 * !Y)	0.00007	0.00007	0.00008
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00006	-0.00006	-0.00005
	(B * S0 * Y) + (!B * S0 * !Y)	0.00065	0.00084	0.00149

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7R	(B * S0 * Y) + (!B * S0 * !Y)	0.00074	0.00094	0.00163
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00007	-0.00007	-0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	0.00006	0.00006	0.00006
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00001	0.00019	0.00088

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00004	0.00015	0.00081
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00007	0.00007	0.00008
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00006	-0.00006	-0.00005
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00076	0.00096	0.00161

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00062	0.00083	0.00153
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00008	-0.00007	-0.00007
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00006	0.00006	0.00006
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00018	0.00003	0.00073

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7R	(A * B * Y)	-0.00012	-0.00001	0.00035
	(A * B * Y)	0.00002	0.00002	0.00002
	(A * B * Y)	-0.00002	-0.00002	-0.00002
	(A * B * Y)	0.00112	0.00122	0.00159
	(!A * !B * !Y)	-0.00002	0.00009	0.00046
	(!A * !B * !Y)	0.00000	0.00002	0.00003
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * !Y)	0.00121	0.00131	0.00169

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X4H7R	(A * B * Y)	0.00123	0.00135	0.00176
	(A * B * Y)	-0.00002	-0.00002	-0.00002
	(A * B * Y)	0.00002	0.00002	0.00003
	(A * B * Y)	-0.00000	0.00011	0.00053
	(!A * !B * !Y)	0.00112	0.00124	0.00165
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00000
	(!A * !B * !Y)	0.00002	0.00002	0.00002
	(!A * !B * !Y)	-0.00010	0.00001	0.00042

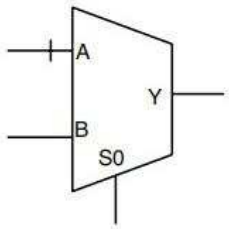
MUX2X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X6H7R	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X6H7R	0.00136	0.00135	0.00255	0.24080

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X6H7R	0.00000	1.18533	1.67941

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X6H7R	A->Y (RR)	-	0.05512	0.21254	0.58588
	B->Y (RR)	-	0.04976	0.20557	0.57484
	S0->Y (RR)	(!A * B)	0.04503	0.19860	0.56127
	S0->Y (FR)	(A * !B)	0.06264	0.22390	0.60158

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X6H7R	A->Y (FF)	-	0.06204	0.20163	0.51953
	B->Y (FF)	-	0.06036	0.19662	0.50848
	S0->Y (FF)	(!A * B)	0.05587	0.19294	0.50822
	S0->Y (RF)	(A * !B)	0.06022	0.18731	0.45433

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X6H7R	A	-	0.00230	0.00256	0.00369
	A	-	0.00006	0.00007	0.00008
	A	-	-0.00007	-0.00006	-0.00001
	A	-	0.00381	0.00411	0.00523
	B	-	0.00180	0.00207	0.00321
	B	-	0.00006	0.00007	0.00007
	B	-	-0.00007	-0.00006	-0.00002
	B	-	0.00327	0.00357	0.00470
	S0	(A * !B)	0.00418	0.00458	0.00557
	S0	(A * !B)	-0.00005	-0.00005	-0.00001
	S0	(A * !B)	0.00000	0.00003	0.00007
	S0	(A * !B)	0.00285	0.00325	0.00427
	S0	(!A * B)	0.00192	0.00230	0.00383
	S0	(!A * B)	-0.00000	0.00001	0.00003
	S0	(!A * B)	-0.00002	-0.00001	-0.00000
	S0	(!A * B)	0.00381	0.00417	0.00570

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X6H7R	A	-	0.00421	0.00449	0.00587
	A	-	-0.00007	-0.00007	-0.00006
	A	-	0.00006	0.00006	0.00007
	A	-	0.00268	0.00295	0.00434
	B	-	0.00429	0.00458	0.00595
	B	-	-0.00007	-0.00007	-0.00006
	B	-	0.00006	0.00006	0.00007
	B	-	0.00280	0.00309	0.00446
	S0	(A * !B)	0.00334	0.00377	0.00488
	S0	(A * !B)	0.00001	0.00005	0.00006
	S0	(A * !B)	-0.00003	-0.00003	-0.00000
	S0	(A * !B)	0.00466	0.00509	0.00621
	S0	(!A * B)	0.00437	0.00475	0.00650
	S0	(!A * B)	-0.00002	-0.00000	0.00003
	S0	(!A * B)	0.00001	0.00002	0.00007
	S0	(!A * B)	0.00250	0.00287	0.00463

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7R	(B * S0 * Y) + (!B * S0 * !Y)	-0.00014	0.00008	0.00090
	(B * S0 * Y) + (!B * S0 * !Y)	0.00008	0.00009	0.00009
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00007	-0.00007	-0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	0.00112	0.00135	0.00217

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7R	(B * S0 * Y) + (!B * S0 * !Y)	0.00147	0.00172	0.00261
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00009	-0.00009	-0.00008
	(B * S0 * Y) + (!B * S0 * !Y)	0.00007	0.00007	0.00007
	(B * S0 * Y) + (!B * S0 * !Y)	0.00020	0.00046	0.00134

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00005	0.00019	0.00103
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00009	0.00009	0.00010
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00007	-0.00007	-0.00007
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00117	0.00141	0.00225

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00121	0.00148	0.00239
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00010	-0.00009	-0.00009
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00007	0.00007	0.00007
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00000	0.00026	0.00117

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7R	(A * B * Y)	-0.00013	-0.00002	0.00039
	(A * B * Y)	0.00003	0.00003	0.00003
	(A * B * Y)	-0.00003	-0.00002	-0.00002
	(A * B * Y)	0.00148	0.00159	0.00199
	(!A * !B * !Y)	-0.00006	0.00005	0.00046
	(!A * !B * !Y)	0.00003	0.00003	0.00004
	(!A * !B * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !B * !Y)	0.00153	0.00164	0.00206

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X6H7R	(A * B * Y)	0.00148	0.00161	0.00206
	(A * B * Y)	-0.00003	-0.00002	-0.00000
	(A * B * Y)	0.00002	0.00002	0.00003
	(A * B * Y)	-0.00012	0.00000	0.00046
	(!A * !B * !Y)	0.00141	0.00153	0.00198
	(!A * !B * !Y)	-0.00003	-0.00003	-0.00001
	(!A * !B * !Y)	0.00002	0.00002	0.00003
	(!A * !B * !Y)	-0.00020	-0.00007	0.00038

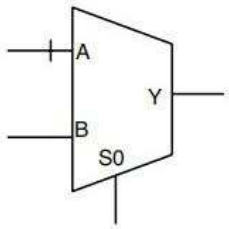
MUX2X8H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUX2 cell is a 2-to-1 multiplexer. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

WARNING: The output pin Y has the potential to glitch low during a high-to-low transition on the S0 input when A=B=1. Use this cell with caution when driving clock or other control signals in your design.



Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	0
0	1	0	0
x	1	1	1
1	x	0	1
1	0	1	0

Footprint

Cell Name	Area
MUX2X8H7R	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	**B**	**S0**	**Y**
MUX2X8H7R	0.00170	0.00175	0.00337	0.31921

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
MUX2X8H7R	0.00000	1.70638	2.41099

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X8H7R	A->Y (RR)	-	0.04556	0.19833	0.56349
	B->Y (RR)	-	0.04173	0.19344	0.55596
	S0->Y (RR)	(!A * B)	0.03721	0.18619	0.54037
	S0->Y (FR)	(A * !B)	0.05211	0.20802	0.57742

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUX2X8H7R	A->Y (FF)	-	0.05218	0.18735	0.49743
	B->Y (FF)	-	0.05128	0.18390	0.49013
	S0->Y (FF)	(!A * B)	0.04685	0.17966	0.48728
	S0->Y (RF)	(A * !B)	0.05099	0.17183	0.42940

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X8H7R	A	-	0.00282	0.00322	0.00475
	A	-	0.00013	0.00014	0.00015
	A	-	-0.00013	-0.00013	-0.00009
	A	-	0.00484	0.00523	0.00676
	B	-	0.00221	0.00261	0.00415
	B	-	0.00013	0.00014	0.00015
	B	-	-0.00013	-0.00013	-0.00008
	B	-	0.00417	0.00462	0.00617
	S0	(A * !B)	0.00520	0.00581	0.00755
	S0	(A * !B)	-0.00004	-0.00004	0.00000
	S0	(A * !B)	0.00000	0.00002	0.00003
	S0	(A * !B)	0.00349	0.00410	0.00574
	S0	(!A * B)	0.00233	0.00290	0.00519
	S0	(!A * B)	0.00003	0.00004	0.00005
	S0	(!A * B)	-0.00005	-0.00004	-0.00002
	S0	(!A * B)	0.00484	0.00541	0.00771

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUX2X8H7R	A	-	0.00516	0.00557	0.00743
	A	-	-0.00014	-0.00014	-0.00010
	A	-	0.00012	0.00013	0.00014
	A	-	0.00315	0.00355	0.00542
	B	-	0.00534	0.00577	0.00764
	B	-	-0.00015	-0.00014	-0.00009
	B	-	0.00012	0.00013	0.00013
	B	-	0.00336	0.00375	0.00562
	S0	(A * !B)	0.00414	0.00476	0.00640
	S0	(A * !B)	0.00000	0.00004	0.00007
	S0	(A * !B)	-0.00003	-0.00002	0.00000
	S0	(A * !B)	0.00585	0.00647	0.00812
	S0	(!A * B)	0.00539	0.00600	0.00857
	S0	(!A * B)	-0.00004	-0.00004	-0.00002
	S0	(!A * B)	0.00004	0.00005	0.00005
	S0	(!A * B)	0.00288	0.00348	0.00605

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7R	(B * S0 * Y) + (!B * S0 * !Y)	-0.00021	0.00014	0.00137
	(B * S0 * Y) + (!B * S0 * !Y)	0.00014	0.00014	0.00014
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00011	-0.00011	-0.00011
	(B * S0 * Y) + (!B * S0 * !Y)	0.00141	0.00176	0.00299

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7R	(B * S0 * Y) + (!B * S0 * !Y)	0.00179	0.00216	0.00348
	(B * S0 * Y) + (!B * S0 * !Y)	-0.00014	-0.00014	-0.00014
	(B * S0 * Y) + (!B * S0 * !Y)	0.00011	0.00011	0.00012
	(B * S0 * Y) + (!B * S0 * !Y)	0.00017	0.00054	0.00186

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00009	0.00027	0.00153
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00014	0.00015	0.00016
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00012	-0.00012	-0.00011
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00152	0.00188	0.00315

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7R	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00150	0.00190	0.00324
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00014	-0.00014	-0.00013
	(A * !S0 * Y) + (!A * !S0 * !Y)	0.00011	0.00018	0.00058
	(A * !S0 * Y) + (!A * !S0 * !Y)	-0.00055	0.00022	0.00163

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7R	(A * B * Y)	-0.00019	0.00001	0.00075
	(A * B * Y)	0.00003	0.00004	0.00005
	(A * B * Y)	-0.00003	-0.00003	0.00001
	(A * B * Y)	0.00192	0.00212	0.00287
	(!A * !B * !Y)	-0.00010	0.00011	0.00086
	(!A * !B * !Y)	0.00004	0.00004	0.00005
	(!A * !B * !Y)	-0.00003	-0.00003	-0.00002
	(!A * !B * !Y)	0.00200	0.00222	0.00298

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX2X8H7R	(A * B * Y)	0.00191	0.00214	0.00297
	(A * B * Y)	-0.00004	-0.00004	-0.00003
	(A * B * Y)	0.00000	0.00003	0.00004
	(A * B * Y)	-0.00022	0.00002	0.00084
	(!A * !B * !Y)	0.00180	0.00203	0.00285
	(!A * !B * !Y)	-0.00005	-0.00004	-0.00004
	(!A * !B * !Y)	0.00002	0.00003	0.00003
	(!A * !B * !Y)	-0.00031	-0.00009	0.00073

MUX4X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X0P5H7R	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X0P5H7R	0.00065	0.00061	0.00058	0.00066	0.00259	0.00157	0.04257

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X0P5H7R	0.00000	0.58798	0.90946

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X0P5H7R	A->Y (RR)	0.07657	0.22977	0.60164
	B->Y (RR)	0.07452	0.22839	0.60087
	C->Y (RR)	0.08303	0.24000	0.61989
	D->Y (RR)	0.08270	0.23993	0.62011
	S0->Y (-R)	0.10947	0.26823	0.64892
	S1->Y (-R)	0.06206	0.21372	0.57730

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X0P5H7R	A->Y (FF)	0.09418	0.22828	0.54334
	B->Y (FF)	0.09353	0.22793	0.54307
	C->Y (FF)	0.10507	0.24324	0.56614
	D->Y (FF)	0.10735	0.24490	0.56713
	S0->Y (-F)	0.10224	0.24314	0.57333
	S1->Y (-F)	0.05171	0.17843	0.47685

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X0P5H7R	A	0.00075	0.00080	0.00096
	A	0.00014	0.00014	0.00014
	A	-0.00012	-0.00012	-0.00010
	A	0.00184	0.00189	0.00205
	B	0.00059	0.00064	0.00080
	B	0.00014	0.00014	0.00014
	B	-0.00012	-0.00012	-0.00011
	B	0.00166	0.00172	0.00189
	C	0.00055	0.00059	0.00075
	C	0.00014	0.00014	0.00014
	C	-0.00012	-0.00012	-0.00012
	C	0.00168	0.00173	0.00188
	D	0.00034	0.00039	0.00054
	D	0.00014	0.00014	0.00014
	D	-0.00012	-0.00012	-0.00010
	D	0.00153	0.00157	0.00173
	S0	0.00310	0.00331	0.00397
	S0	0.00028	0.00028	0.00028
	S0	0.00001	0.00001	0.00001
	S0	0.00330	0.00359	0.00452
	S1	0.00156	0.00177	0.00242
	S1	0.00005	0.00005	0.00006
	S1	-0.00001	-0.00001	0.00000
	S1	0.00149	0.00169	0.00237

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X0P5H7R	A	0.00170	0.00175	0.00195
	A	-0.00014	-0.00014	-0.00014
	A	0.00012	0.00012	0.00012
	A	0.00060	0.00065	0.00085
	B	0.00186	0.00190	0.00210
	B	-0.00014	-0.00014	-0.00014
	B	0.00012	0.00012	0.00012
	B	0.00077	0.00082	0.00102
	C	0.00223	0.00228	0.00248
	C	-0.00014	-0.00014	-0.00013
	C	0.00012	0.00012	0.00012
	C	0.00109	0.00114	0.00134
	D	0.00245	0.00250	0.00269
	D	-0.00014	-0.00014	-0.00014
	D	0.00010	0.00012	0.00012
	D	0.00126	0.00131	0.00150
	S0	0.00359	0.00387	0.00495
	S0	-0.00000	0.00002	0.00004
	S0	0.00023	0.00024	0.00028
	S0	0.00343	0.00361	0.00422
	S1	0.00161	0.00182	0.00256
	S1	-0.00002	-0.00001	0.00001
	S1	0.00004	0.00004	0.00005
	S1	0.00188	0.00208	0.00271

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7R	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00009	0.00014	0.00032
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00011	0.00011	0.00011
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00009	-0.00009	-0.00009
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00096	0.00101	0.00118
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00007	-0.00006
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7R	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00093	0.00098	0.00118
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00011	-0.00011	-0.00011
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00009	0.00009	0.00009
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00006	0.00012	0.00031
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00008	0.00008	0.00008
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00025	-0.00025	-0.00024

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7R	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00006	-0.00002	0.00016
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00011	0.00011	0.00011
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00010	-0.00009	-0.00009
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00079	0.00084	0.00102
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00013	-0.00012	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00019	0.00019	0.00020

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7R	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00109	0.00114	0.00133
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00011	-0.00011	-0.00011
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00009	0.00009	0.00010
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00023	0.00028	0.00048
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00013	0.00013	0.00013
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7R	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00007	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00018	0.00018	0.00019
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00028	0.00032	0.00047
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00011	0.00011	0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00009	-0.00009	-0.00009
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00118	0.00121	0.00137

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7R	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00008	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00018	-0.00017	-0.00017
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00114	0.00118	0.00135
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00010
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00009	0.00009	0.00010
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00024	0.00028	0.00046

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7R	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00007	0.00011	0.00026
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00011	0.00011	0.00011
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00009	-0.00009	-0.00008
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00103	0.00106	0.00121
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00013	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7R	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00135	0.00140	0.00156
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00011
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00009	0.00009	0.00009
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00040	0.00045	0.00061
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00013	0.00014	0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X0P5H7R	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00009	-0.00001	0.00031
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00002	0.00003	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00001	0.00000
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00145	0.00153	0.00186
	(A * B * C * !D * !S1 * Y)	0.00112	0.00120	0.00150
	(A * B * C * !D * !S1 * Y)	-0.00007	-0.00006	-0.00006
	(A * B * C * !D * !S1 * Y)	0.00006	0.00006	0.00009
	(A * B * C * !D * !S1 * Y)	0.00213	0.00221	0.00251
	(A * B * !C * D * !S1 * Y)	-0.00003	0.00014	0.00075
	(A * B * !C * D * !S1 * Y)	0.00011	0.00011	0.00011
	(A * B * !C * D * !S1 * Y)	-0.00009	-0.00008	-0.00006
	(A * B * !C * D * !S1 * Y)	0.00204	0.00220	0.00281
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00007	0.00002	0.00035
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00002	0.00003	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00001	0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00146	0.00155	0.00188
	(A * !B * C * D * S1 * Y)	0.00086	0.00095	0.00125
	(A * !B * C * D * S1 * Y)	-0.00007	-0.00006	-0.00006
	(A * !B * C * D * S1 * Y)	0.00004	0.00006	0.00006
	(A * !B * C * D * S1 * Y)	0.00196	0.00205	0.00235
	(A * !B * !C * !D * S1 * !Y)	0.00076	0.00085	0.00115
	(A * !B * !C * !D * S1 * !Y)	-0.00007	-0.00006	-0.00005
	(A * !B * !C * !D * S1 * !Y)	0.00006	0.00007	0.00010
	(A * !B * !C * !D * S1 * !Y)	0.00184	0.00193	0.00224
	(!A * B * C * D * S1 * Y)	-0.00016	0.00001	0.00067
	(!A * B * C * D * S1 * Y)	0.00011	0.00011	0.00011
	(!A * B * C * D * S1 * Y)	-0.00009	-0.00008	-0.00006
	(!A * B * C * D * S1 * Y)	0.00180	0.00197	0.00263
	(!A * B * !C * !D * S1 * !Y)	-0.00001	0.00017	0.00083
	(!A * B * !C * !D * S1 * !Y)	0.00010	0.00012	0.00014
	(!A * B * !C * !D * S1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A * B * !C * !D * S1 * !Y)	0.00194	0.00212	0.00279
	(!A * !B * C * !D * !S1 * !Y)	0.00098	0.00107	0.00137
	(!A * !B * C * !D * !S1 * !Y)	-0.00007	-0.00006	-0.00003
	(!A * !B * C * !D * !S1 * !Y)	0.00006	0.00006	0.00007
	(!A * !B * C * !D * !S1 * !Y)	0.00198	0.00206	0.00236
	(!A * !B * !C * D * !S1 * !Y)	0.00016	0.00032	0.00093
	(!A * !B * !C * D * !S1 * !Y)	0.00010	0.00011	0.00012
	(!A * !B * !C * D * !S1 * !Y)	-0.00008	-0.00007	-0.00006
	(!A * !B * !C * D * !S1 * !Y)	0.00219	0.00236	0.00298

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X0P5H7R	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00130	0.00141	0.00177
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00003	-0.00002	-0.00002
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00000	0.00002	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00024	-0.00013	0.00023
	(A * B * C * !D * !S1 * Y)	0.00174	0.00184	0.00220
	(A * B * C * !D * !S1 * Y)	0.00006	0.00006	0.00008
	(A * B * C * !D * !S1 * Y)	-0.00009	-0.00006	-0.00006
	(A * B * C * !D * !S1 * Y)	0.00073	0.00084	0.00119
	(A * B * !C * D * !S1 * Y)	0.00207	0.00226	0.00294
	(A * B * !C * D * !S1 * Y)	-0.00011	-0.00011	-0.00010
	(A * B * !C * D * !S1 * Y)	0.00008	0.00009	0.00010
	(A * B * !C * D * !S1 * Y)	0.00002	0.00020	0.00088
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00127	0.00137	0.00174
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00003	-0.00002	0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00000	0.00001	0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00026	-0.00015	0.00021
	(A * !B * C * D * S1 * Y)	0.00155	0.00165	0.00201
	(A * !B * C * D * S1 * Y)	0.00006	0.00007	0.00007
	(A * !B * C * D * S1 * Y)	-0.00006	-0.00006	-0.00004
	(A * !B * C * D * S1 * Y)	0.00045	0.00055	0.00091
	(A * !B * !C * !D * S1 * !Y)	0.00165	0.00175	0.00210
	(A * !B * !C * !D * S1 * !Y)	0.00006	0.00007	0.00010
	(A * !B * !C * !D * S1 * !Y)	-0.00007	-0.00006	-0.00006
	(A * !B * !C * !D * S1 * !Y)	0.00056	0.00066	0.00102
	(!A * B * C * D * S1 * Y)	0.00188	0.00209	0.00282
	(!A * B * C * D * S1 * Y)	-0.00011	-0.00011	-0.00011
	(!A * B * C * D * S1 * Y)	0.00006	0.00009	0.00010
	(!A * B * C * D * S1 * Y)	-0.00007	0.00013	0.00085
	(!A * B * !C * !D * S1 * !Y)	0.00172	0.00193	0.00265
	(!A * B * !C * !D * S1 * !Y)	-0.00011	-0.00011	-0.00008
	(!A * B * !C * !D * S1 * !Y)	0.00007	0.00008	0.00008
	(!A * B * !C * !D * S1 * !Y)	-0.00021	-0.00002	0.00070
	(!A * !B * C * !D * !S1 * !Y)	0.00188	0.00199	0.00234
	(!A * !B * C * !D * !S1 * !Y)	0.00003	0.00006	0.00007
	(!A * !B * C * !D * !S1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A * !B * C * !D * !S1 * !Y)	0.00089	0.00098	0.00134
	(!A * !B * !C * D * !S1 * !Y)	0.00190	0.00208	0.00276
	(!A * !B * !C * D * !S1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A * !B * !C * D * !S1 * !Y)	0.00008	0.00008	0.00008
	(!A * !B * !C * D * !S1 * !Y)	-0.00014	0.00004	0.00071

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7R	(B * D * S0 * Y)	-0.00011	-0.00000	0.00038
	(B * D * S0 * Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00001
	(B * D * S0 * Y)	0.00088	0.00099	0.00138
	(A * C * !S0 * Y)	-0.00011	-0.00000	0.00038
	(A * C * !S0 * Y)	0.00001	0.00002	0.00002
	(A * C * !S0 * Y)	-0.00003	-0.00002	-0.00001
	(A * C * !S0 * Y)	0.00088	0.00099	0.00138
	(!B * !D * S0 * !Y)	-0.00001	0.00010	0.00049
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00003
	(!B * !D * S0 * !Y)	-0.00002	-0.00001	-0.00000
	(!B * !D * S0 * !Y)	0.00097	0.00108	0.00148
	(!A * !C * !S0 * !Y)	-0.00002	0.00010	0.00049
	(!A * !C * !S0 * !Y)	0.00000	0.00002	0.00003
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !C * !S0 * !Y)	0.00097	0.00108	0.00148

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P5H7R	(B * D * S0 * Y)	0.00086	0.00099	0.00142
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y)	0.00001	0.00002	0.00002
	(B * D * S0 * Y)	-0.00012	-0.00000	0.00043
	(A * C * !S0 * Y)	0.00086	0.00099	0.00142
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00001
	(A * C * !S0 * Y)	0.00001	0.00002	0.00003
	(A * C * !S0 * Y)	-0.00013	-0.00000	0.00043
	(!B * !D * S0 * !Y)	0.00075	0.00088	0.00131
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00000	0.00001	0.00002
	(!B * !D * S0 * !Y)	-0.00022	-0.00010	0.00033
	(!A * !C * !S0 * !Y)	0.00075	0.00088	0.00131
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00000
	(!A * !C * !S0 * !Y)	0.00001	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00022	-0.00010	0.00033

MUX4X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X0P7H7R	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X0P7H7R	0.00065	0.00061	0.00058	0.00066	0.00259	0.00155	0.04831

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X0P7H7R	0.00000	0.60030	0.92714

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X0P7H7R	A->Y (RR)	0.07556	0.22945	0.60177
	B->Y (RR)	0.07351	0.22804	0.60120
	C->Y (RR)	0.08215	0.23988	0.62086
	D->Y (RR)	0.08181	0.23981	0.62100
	S0->Y (-R)	0.10858	0.26801	0.64919
	S1->Y (-R)	0.06114	0.21348	0.57796

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X0P7H7R	A->Y (FF)	0.09316	0.22806	0.54373
	B->Y (FF)	0.09251	0.22769	0.54343
	C->Y (FF)	0.10423	0.24330	0.56700
	D->Y (FF)	0.10654	0.24496	0.56807
	S0->Y (-F)	0.10142	0.24324	0.57455
	S1->Y (-F)	0.05043	0.17807	0.47696

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X0P7H7R	A	0.00077	0.00082	0.00099
	A	0.00014	0.00014	0.00014
	A	-0.00012	-0.00012	-0.00012
	A	0.00185	0.00191	0.00207
	B	0.00061	0.00066	0.00084
	B	0.00014	0.00014	0.00014
	B	-0.00012	-0.00012	-0.00011
	B	0.00168	0.00173	0.00191
	C	0.00057	0.00062	0.00078
	C	0.00014	0.00014	0.00014
	C	-0.00012	-0.00012	-0.00012
	C	0.00169	0.00174	0.00190
	D	0.00036	0.00041	0.00057
	D	0.00014	0.00014	0.00014
	D	-0.00012	-0.00012	-0.00012
	D	0.00154	0.00159	0.00175
	S0	0.00313	0.00333	0.00400
	S0	0.00023	0.00024	0.00029
	S0	0.00001	0.00001	0.00005
	S0	0.00331	0.00361	0.00455
	S1	0.00157	0.00179	0.00245
	S1	0.00004	0.00005	0.00005
	S1	-0.00002	-0.00001	0.00000
	S1	0.00149	0.00169	0.00238

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X0P7H7R	A	0.00171	0.00177	0.00198
	A	-0.00014	-0.00014	-0.00014
	A	0.00012	0.00012	0.00012
	A	0.00062	0.00068	0.00089
	B	0.00186	0.00192	0.00213
	B	-0.00014	-0.00014	-0.00013
	B	0.00012	0.00012	0.00012
	B	0.00079	0.00084	0.00106
	C	0.00225	0.00230	0.00252
	C	-0.00014	-0.00014	-0.00013
	C	0.00012	0.00012	0.00012
	C	0.00113	0.00118	0.00139
	D	0.00247	0.00252	0.00273
	D	-0.00014	-0.00014	-0.00013
	D	0.00012	0.00012	0.00012
	D	0.00129	0.00134	0.00155
	S0	0.00361	0.00390	0.00499
	S0	-0.00001	0.00002	0.00006
	S0	0.00016	0.00020	0.00027
	S0	0.00346	0.00364	0.00426
	S1	0.00162	0.00183	0.00258
	S1	-0.00001	-0.00001	0.00001
	S1	0.00004	0.00004	0.00005
	S1	0.00190	0.00211	0.00275

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7R	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00009	0.00014	0.00032
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00011	0.00011	0.00011
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00009	-0.00009	-0.00009
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00096	0.00101	0.00118
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00007	-0.00006
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7R	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00093	0.00098	0.00118
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00011	-0.00011	-0.00011
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00009	0.00009	0.00009
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00006	0.00012	0.00031
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00008	0.00008	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7R	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00006	-0.00002	0.00016
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00011	0.00011	0.00011
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00009	-0.00009	-0.00009
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00079	0.00084	0.00102
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00013	-0.00012	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00019	0.00019	0.00020

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7R	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00109	0.00114	0.00133
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00011	-0.00011	-0.00011
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00009	0.00009	0.00009
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00023	0.00028	0.00048
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00013	0.00013	0.00013
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7R	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00007	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00018	0.00018	0.00019
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00029	0.00032	0.00048
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00011	0.00011	0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00010	-0.00009	-0.00009
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00118	0.00122	0.00138

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7R	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00008	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00018	-0.00017	-0.00017
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00114	0.00118	0.00135
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00010
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00009	0.00009	0.00010
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00024	0.00028	0.00045

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7R	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00008	0.00012	0.00027
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00011	0.00011	0.00011
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00009	-0.00009	-0.00008
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00103	0.00107	0.00122
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00013	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7R	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00135	0.00140	0.00156
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00011
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00009	0.00009	0.00009
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00040	0.00044	0.00061
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00013	0.00014	0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X0P7H7R	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00009	-0.00001	0.00031
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00002	0.00003	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00001	0.00000
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00145	0.00153	0.00186
	(A * B * C * !D * !S1 * Y)	0.00112	0.00120	0.00150
	(A * B * C * !D * !S1 * Y)	-0.00006	-0.00006	-0.00006
	(A * B * C * !D * !S1 * Y)	0.00006	0.00006	0.00009
	(A * B * C * !D * !S1 * Y)	0.00213	0.00221	0.00251
	(A * B * !C * D * !S1 * Y)	-0.00002	0.00015	0.00075
	(A * B * !C * D * !S1 * Y)	0.00011	0.00011	0.00011
	(A * B * !C * D * !S1 * Y)	-0.00009	-0.00008	-0.00006
	(A * B * !C * D * !S1 * Y)	0.00204	0.00220	0.00281
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00006	0.00002	0.00035
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00002	0.00003	0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00001	-0.00000	0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00146	0.00155	0.00188
	(A * !B * C * D * S1 * Y)	0.00086	0.00095	0.00125
	(A * !B * C * D * S1 * Y)	-0.00007	-0.00006	-0.00006
	(A * !B * C * D * S1 * Y)	0.00005	0.00006	0.00006
	(A * !B * C * D * S1 * Y)	0.00196	0.00205	0.00235
	(A * !B * !C * !D * S1 * !Y)	0.00076	0.00085	0.00115
	(A * !B * !C * !D * S1 * !Y)	-0.00008	-0.00007	-0.00006
	(A * !B * !C * !D * S1 * !Y)	0.00003	0.00006	0.00007
	(A * !B * !C * !D * S1 * !Y)	0.00184	0.00194	0.00224
	(!A * B * C * D * S1 * Y)	-0.00016	0.00001	0.00067
	(!A * B * C * D * S1 * Y)	0.00011	0.00011	0.00012
	(!A * B * C * D * S1 * Y)	-0.00009	-0.00008	-0.00006
	(!A * B * C * D * S1 * Y)	0.00180	0.00197	0.00264
	(!A * B * !C * !D * S1 * !Y)	-0.00001	0.00017	0.00083
	(!A * B * !C * !D * S1 * !Y)	0.00010	0.00012	0.00014
	(!A * B * !C * !D * S1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A * B * !C * !D * S1 * !Y)	0.00194	0.00212	0.00278
	(!A * !B * C * !D * !S1 * !Y)	0.00098	0.00107	0.00137
	(!A * !B * C * !D * !S1 * !Y)	-0.00007	-0.00006	-0.00003
	(!A * !B * C * !D * !S1 * !Y)	0.00005	0.00006	0.00007
	(!A * !B * C * !D * !S1 * !Y)	0.00198	0.00207	0.00236
	(!A * !B * !C * D * !S1 * !Y)	0.00017	0.00033	0.00094
	(!A * !B * !C * D * !S1 * !Y)	0.00010	0.00011	0.00012
	(!A * !B * !C * D * !S1 * !Y)	-0.00008	-0.00008	-0.00006
	(!A * !B * !C * D * !S1 * !Y)	0.00220	0.00237	0.00299

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X0P7H7R	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00130	0.00141	0.00177
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00003	-0.00002	-0.00002
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00000	0.00002	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00024	-0.00013	0.00023
	(A * B * C * !D * !S1 * Y)	0.00175	0.00185	0.00221
	(A * B * C * !D * !S1 * Y)	0.00006	0.00006	0.00006
	(A * B * C * !D * !S1 * Y)	-0.00006	-0.00006	-0.00006
	(A * B * C * !D * !S1 * Y)	0.00074	0.00084	0.00120
	(A * B * !C * D * !S1 * Y)	0.00207	0.00226	0.00294
	(A * B * !C * D * !S1 * Y)	-0.00011	-0.00011	-0.00011
	(A * B * !C * D * !S1 * Y)	0.00008	0.00009	0.00010
	(A * B * !C * D * !S1 * Y)	0.00002	0.00020	0.00088
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00127	0.00137	0.00174
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00003	-0.00002	0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00000	0.00001	0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00025	-0.00015	0.00021
	(A * !B * C * D * S1 * Y)	0.00155	0.00165	0.00201
	(A * !B * C * D * S1 * Y)	0.00006	0.00006	0.00007
	(A * !B * C * D * S1 * Y)	-0.00006	-0.00006	-0.00005
	(A * !B * C * D * S1 * Y)	0.00045	0.00055	0.00091
	(A * !B * !C * !D * S1 * !Y)	0.00165	0.00175	0.00210
	(A * !B * !C * !D * S1 * !Y)	0.00006	0.00007	0.00010
	(A * !B * !C * !D * S1 * !Y)	-0.00006	-0.00006	-0.00003
	(A * !B * !C * !D * S1 * !Y)	0.00055	0.00066	0.00102
	(!A * B * C * D * S1 * Y)	0.00189	0.00209	0.00281
	(!A * B * C * D * S1 * Y)	-0.00011	-0.00011	-0.00011
	(!A * B * C * D * S1 * Y)	0.00006	0.00009	0.00010
	(!A * B * C * D * S1 * Y)	-0.00007	0.00013	0.00085
	(!A * B * !C * !D * S1 * !Y)	0.00173	0.00193	0.00265
	(!A * B * !C * !D * S1 * !Y)	-0.00011	-0.00011	-0.00008
	(!A * B * !C * !D * S1 * !Y)	0.00007	0.00008	0.00008
	(!A * B * !C * !D * S1 * !Y)	-0.00021	-0.00002	0.00070
	(!A * !B * C * !D * !S1 * !Y)	0.00189	0.00199	0.00235
	(!A * !B * C * !D * !S1 * !Y)	0.00004	0.00006	0.00007
	(!A * !B * C * !D * !S1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A * !B * C * !D * !S1 * !Y)	0.00089	0.00100	0.00135
	(!A * !B * !C * D * !S1 * !Y)	0.00189	0.00208	0.00275
	(!A * !B * !C * D * !S1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A * !B * !C * D * !S1 * !Y)	0.00008	0.00008	0.00008
	(!A * !B * !C * D * !S1 * !Y)	-0.00014	0.00004	0.00071

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7R	(B * D * S0 * Y)	-0.00011	-0.00000	0.00038
	(B * D * S0 * Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y)	-0.00002	-0.00001	-0.00000
	(B * D * S0 * Y)	0.00087	0.00097	0.00137
	(A * C * !S0 * Y)	-0.00011	-0.00000	0.00038
	(A * C * !S0 * Y)	0.00002	0.00002	0.00003
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00001
	(A * C * !S0 * Y)	0.00086	0.00097	0.00136
	(!B * !D * S0 * !Y)	-0.00000	0.00011	0.00051
	(!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00097	0.00108	0.00148
	(!A * !C * !S0 * !Y)	0.00000	0.00011	0.00051
	(!A * !C * !S0 * !Y)	0.00002	0.00002	0.00003
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !C * !S0 * !Y)	0.00097	0.00109	0.00148

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X0P7H7R	(B * D * S0 * Y)	0.00087	0.00099	0.00143
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00001
	(B * D * S0 * Y)	0.00000	0.00002	0.00002
	(B * D * S0 * Y)	-0.00011	0.00002	0.00045
	(A * C * !S0 * Y)	0.00087	0.00100	0.00143
	(A * C * !S0 * Y)	-0.00003	-0.00002	-0.00002
	(A * C * !S0 * Y)	0.00001	0.00002	0.00003
	(A * C * !S0 * Y)	-0.00011	0.00001	0.00045
	(!B * !D * S0 * !Y)	0.00074	0.00087	0.00130
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00003
	(!B * !D * S0 * !Y)	-0.00022	-0.00010	0.00033
	(!A * !C * !S0 * !Y)	0.00074	0.00087	0.00130
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00022	-0.00010	0.00033

MUX4X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X1H7R	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X1H7R	0.00065	0.00061	0.00057	0.00066	0.00260	0.00157	0.05760

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X1H7R	0.00000	0.61790	0.95135

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X1H7R	A->Y (RR)	0.07478	0.22977	0.60350
	B->Y (RR)	0.07275	0.22836	0.60315
	C->Y (RR)	0.08143	0.24029	0.62279
	D->Y (RR)	0.08111	0.24022	0.62293
	S0->Y (-R)	0.10817	0.26861	0.65063
	S1->Y (-R)	0.05978	0.21306	0.57799

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X1H7R	A->Y (FF)	0.09286	0.23076	0.55210
	B->Y (FF)	0.09221	0.23042	0.55174
	C->Y (FF)	0.10400	0.24608	0.57561
	D->Y (FF)	0.10629	0.24777	0.57695
	S0->Y (-F)	0.10121	0.24612	0.58344
	S1->Y (-F)	0.05081	0.18191	0.48747

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X1H7R	A	0.00081	0.00086	0.00104
	A	0.00013	0.00013	0.00014
	A	-0.00012	-0.00011	-0.00007
	A	0.00186	0.00194	0.00212
	B	0.00064	0.00070	0.00088
	B	0.00013	0.00013	0.00014
	B	-0.00012	-0.00012	-0.00011
	B	0.00171	0.00176	0.00195
	C	0.00060	0.00065	0.00084
	C	0.00013	0.00013	0.00013
	C	-0.00012	-0.00012	-0.00011
	C	0.00173	0.00178	0.00196
	D	0.00040	0.00045	0.00062
	D	0.00013	0.00013	0.00013
	D	-0.00012	-0.00012	-0.00010
	D	0.00157	0.00163	0.00180
	S0	0.00319	0.00338	0.00405
	S0	0.00027	0.00027	0.00028
	S0	-0.00001	0.00002	0.00004
	S0	0.00336	0.00366	0.00461
	S1	0.00161	0.00183	0.00249
	S1	0.00004	0.00004	0.00005
	S1	-0.00001	-0.00001	0.00001
	S1	0.00153	0.00174	0.00244

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X1H7R	A	0.00175	0.00181	0.00203
	A	-0.00014	-0.00013	-0.00013
	A	0.00011	0.00012	0.00012
	A	0.00067	0.00072	0.00095
	B	0.00190	0.00196	0.00219
	B	-0.00014	-0.00013	-0.00012
	B	0.00011	0.00012	0.00012
	B	0.00083	0.00089	0.00112
	C	0.00229	0.00234	0.00258
	C	-0.00013	-0.00013	-0.00013
	C	0.00011	0.00012	0.00012
	C	0.00116	0.00121	0.00145
	D	0.00250	0.00256	0.00279
	D	-0.00013	-0.00013	-0.00013
	D	0.00011	0.00012	0.00012
	D	0.00133	0.00138	0.00161
	S0	0.00365	0.00395	0.00507
	S0	-0.00002	0.00002	0.00006
	S0	0.00019	0.00023	0.00027
	S0	0.00350	0.00368	0.00430
	S1	0.00166	0.00187	0.00264
	S1	-0.00000	0.00000	0.00002
	S1	0.00003	0.00004	0.00005
	S1	0.00193	0.00214	0.00278

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7R	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00009	0.00014	0.00032
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00011	0.00011	0.00011
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00009	-0.00009	-0.00009
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00096	0.00101	0.00118
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00007	-0.00006
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00000	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7R	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00093	0.00098	0.00118
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00011	-0.00011	-0.00010
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00009	0.00009	0.00009
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00006	0.00012	0.00031
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00008	0.00008	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00000
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7R	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00006	-0.00002	0.00016
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00011	0.00011	0.00011
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00009	-0.00009	-0.00009
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00079	0.00084	0.00102
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00013	-0.00012	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00019	0.00019	0.00020

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7R	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00109	0.00114	0.00133
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00011	-0.00011	-0.00011
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00009	0.00009	0.00009
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00023	0.00028	0.00048
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00013	0.00013	0.00013
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7R	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00007	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00018	0.00018	0.00019
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00028	0.00032	0.00048
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00011	0.00011	0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00009	-0.00009	-0.00009
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00119	0.00123	0.00138

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7R	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00008	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00018	-0.00017	-0.00017
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00114	0.00119	0.00136
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00009	0.00009	0.00009
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00023	0.00028	0.00045

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7R	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00008	0.00012	0.00027
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00011	0.00011	0.00011
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00009	-0.00009	-0.00009
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00104	0.00108	0.00123
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00013	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7R	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00136	0.00140	0.00157
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00011
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00009	0.00009	0.00010
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00040	0.00044	0.00061
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00013	0.00014	0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00018	-0.00018	-0.00017

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X1H7R	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00009	-0.00001	0.00031
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00002	0.00003	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00003	-0.00001	0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00145	0.00154	0.00186
	(A * B * C * !D * !S1 * Y)	0.00112	0.00121	0.00150
	(A * B * C * !D * !S1 * Y)	-0.00008	-0.00006	-0.00006
	(A * B * C * !D * !S1 * Y)	0.00005	0.00006	0.00008
	(A * B * C * !D * !S1 * Y)	0.00213	0.00221	0.00252
	(A * B * !C * D * !S1 * Y)	-0.00002	0.00014	0.00075
	(A * B * !C * D * !S1 * Y)	0.00011	0.00011	0.00011
	(A * B * !C * D * !S1 * Y)	-0.00009	-0.00008	-0.00006
	(A * B * !C * D * !S1 * Y)	0.00206	0.00221	0.00282
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00007	0.00002	0.00034
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00002	0.00003	0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00001	-0.00000	0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00147	0.00155	0.00188
	(A * !B * C * D * S1 * Y)	0.00086	0.00094	0.00124
	(A * !B * C * D * S1 * Y)	-0.00007	-0.00006	-0.00006
	(A * !B * C * D * S1 * Y)	0.00005	0.00006	0.00006
	(A * !B * C * D * S1 * Y)	0.00197	0.00206	0.00236
	(A * !B * !C * !D * S1 * !Y)	0.00075	0.00085	0.00115
	(A * !B * !C * !D * S1 * !Y)	-0.00007	-0.00006	-0.00006
	(A * !B * !C * !D * S1 * !Y)	0.00006	0.00007	0.00010
	(A * !B * !C * !D * S1 * !Y)	0.00185	0.00194	0.00225
	(!A * B * C * D * S1 * Y)	-0.00016	0.00001	0.00066
	(!A * B * C * D * S1 * Y)	0.00011	0.00011	0.00012
	(!A * B * C * D * S1 * Y)	-0.00009	-0.00008	-0.00007
	(!A * B * C * D * S1 * Y)	0.00181	0.00198	0.00264
	(!A * B * !C * !D * S1 * !Y)	-0.00001	0.00017	0.00083
	(!A * B * !C * !D * S1 * !Y)	0.00008	0.00011	0.00011
	(!A * B * !C * !D * S1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A * B * !C * !D * S1 * !Y)	0.00194	0.00212	0.00279
	(!A * !B * C * !D * !S1 * !Y)	0.00099	0.00107	0.00137
	(!A * !B * C * !D * !S1 * !Y)	-0.00007	-0.00006	-0.00004
	(!A * !B * C * !D * !S1 * !Y)	0.00005	0.00006	0.00006
	(!A * !B * C * !D * !S1 * !Y)	0.00198	0.00207	0.00236
	(!A * !B * !C * D * !S1 * !Y)	0.00016	0.00032	0.00093
	(!A * !B * !C * D * !S1 * !Y)	0.00010	0.00011	0.00012
	(!A * !B * !C * D * !S1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A * !B * !C * D * !S1 * !Y)	0.00222	0.00238	0.00299

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X1H7R	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00132	0.00142	0.00179
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00003	-0.00002	-0.00002
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00001	0.00001	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00023	-0.00013	0.00023
	(A * B * C * !D * !S1 * Y)	0.00176	0.00186	0.00222
	(A * B * C * !D * !S1 * Y)	0.00006	0.00007	0.00009
	(A * B * C * !D * !S1 * Y)	-0.00008	-0.00006	-0.00005
	(A * B * C * !D * !S1 * Y)	0.00075	0.00085	0.00121
	(A * B * !C * D * !S1 * Y)	0.00209	0.00228	0.00295
	(A * B * !C * D * !S1 * Y)	-0.00011	-0.00011	-0.00011
	(A * B * !C * D * !S1 * Y)	0.00008	0.00009	0.00010
	(A * B * !C * D * !S1 * Y)	0.00003	0.00021	0.00088
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00129	0.00139	0.00175
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00004	-0.00003	-0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00000	0.00001	0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00025	-0.00015	0.00021
	(A * !B * C * D * S1 * Y)	0.00156	0.00167	0.00202
	(A * !B * C * D * S1 * Y)	0.00006	0.00006	0.00007
	(A * !B * C * D * S1 * Y)	-0.00006	-0.00005	-0.00003
	(A * !B * C * D * S1 * Y)	0.00045	0.00055	0.00091
	(A * !B * !C * !D * S1 * !Y)	0.00166	0.00176	0.00212
	(A * !B * !C * !D * S1 * !Y)	0.00006	0.00007	0.00009
	(A * !B * !C * !D * S1 * !Y)	-0.00007	-0.00006	-0.00005
	(A * !B * !C * !D * S1 * !Y)	0.00056	0.00066	0.00102
	(!A * B * C * D * S1 * Y)	0.00190	0.00210	0.00282
	(!A * B * C * D * S1 * Y)	-0.00011	-0.00011	-0.00011
	(!A * B * C * D * S1 * Y)	0.00007	0.00008	0.00009
	(!A * B * C * D * S1 * Y)	-0.00007	0.00014	0.00085
	(!A * B * !C * !D * S1 * !Y)	0.00174	0.00194	0.00266
	(!A * B * !C * !D * S1 * !Y)	-0.00011	-0.00011	-0.00008
	(!A * B * !C * !D * S1 * !Y)	0.00008	0.00008	0.00008
	(!A * B * !C * !D * S1 * !Y)	-0.00021	-0.00001	0.00070
	(!A * !B * C * !D * !S1 * !Y)	0.00190	0.00200	0.00235
	(!A * !B * C * !D * !S1 * !Y)	0.00006	0.00007	0.00007
	(!A * !B * C * !D * !S1 * !Y)	-0.00006	-0.00006	-0.00004
	(!A * !B * C * !D * !S1 * !Y)	0.00090	0.00100	0.00135
	(!A * !B * !C * D * !S1 * !Y)	0.00192	0.00210	0.00277
	(!A * !B * !C * D * !S1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A * !B * !C * D * !S1 * !Y)	0.00008	0.00008	0.00008
	(!A * !B * !C * D * !S1 * !Y)	-0.00014	0.00004	0.00071

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7R	(B * D * S0 * Y)	-0.00011	-0.00000	0.00038
	(B * D * S0 * Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y)	-0.00002	-0.00001	-0.00000
	(B * D * S0 * Y)	0.00088	0.00099	0.00138
	(A * C * !S0 * Y)	-0.00011	-0.00001	0.00038
	(A * C * !S0 * Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y)	-0.00002	-0.00001	-0.00000
	(A * C * !S0 * Y)	0.00088	0.00099	0.00138
	(!B * !D * S0 * !Y)	-0.00002	0.00010	0.00049
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00002	-0.00001	-0.00001
	(!B * !D * S0 * !Y)	0.00096	0.00108	0.00148
	(!A * !C * !S0 * !Y)	-0.00002	0.00010	0.00049
	(!A * !C * !S0 * !Y)	0.00000	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !C * !S0 * !Y)	0.00097	0.00108	0.00148

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1H7R	(B * D * S0 * Y)	0.00087	0.00099	0.00142
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y)	0.00001	0.00002	0.00002
	(B * D * S0 * Y)	-0.00013	-0.00000	0.00043
	(A * C * !S0 * Y)	0.00087	0.00099	0.00142
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y)	0.00000	0.00001	0.00002
	(A * C * !S0 * Y)	-0.00013	0.00000	0.00043
	(!B * !D * S0 * !Y)	0.00076	0.00089	0.00132
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00001	0.00001	0.00002
	(!B * !D * S0 * !Y)	-0.00022	-0.00010	0.00033
	(!A * !C * !S0 * !Y)	0.00076	0.00089	0.00132
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00000
	(!A * !C * !S0 * !Y)	0.00001	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00022	-0.00010	0.00033

MUX4X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X1P4H7R	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X1P4H7R	0.00065	0.00061	0.00057	0.00066	0.00260	0.00157	0.06566

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X1P4H7R	0.00000	0.63469	0.97535

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X1P4H7R	A->Y (RR)	0.07477	0.23037	0.60428
	B->Y (RR)	0.07274	0.22896	0.60378
	C->Y (RR)	0.08234	0.24216	0.62616
	D->Y (RR)	0.08201	0.24211	0.62655
	S0->Y (-R)	0.10947	0.27051	0.65258
	S1->Y (-R)	0.05981	0.21369	0.57942

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X1P4H7R	A->Y (FF)	0.09301	0.23165	0.55344
	B->Y (FF)	0.09236	0.23132	0.55307
	C->Y (FF)	0.10542	0.24863	0.57920
	D->Y (FF)	0.10771	0.25034	0.58063
	S0->Y (-F)	0.10202	0.24789	0.58583
	S1->Y (-F)	0.05129	0.18357	0.49022

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X1P4H7R	A	0.00086	0.00091	0.00111
	A	0.00013	0.00013	0.00013
	A	-0.00011	-0.00011	-0.00009
	A	0.00192	0.00198	0.00217
	B	0.00069	0.00075	0.00095
	B	0.00013	0.00013	0.00013
	B	-0.00011	-0.00011	-0.00009
	B	0.00174	0.00181	0.00200
	C	0.00066	0.00071	0.00090
	C	0.00012	0.00013	0.00013
	C	-0.00011	-0.00011	-0.00009
	C	0.00175	0.00182	0.00202
	D	0.00045	0.00050	0.00069
	D	0.00013	0.00013	0.00013
	D	-0.00011	-0.00011	-0.00010
	D	0.00161	0.00167	0.00186
	S0	0.00325	0.00345	0.00412
	S0	0.00023	0.00023	0.00031
	S0	-0.00005	-0.00001	0.00008
	S0	0.00343	0.00371	0.00467
	S1	0.00165	0.00187	0.00257
	S1	0.00002	0.00004	0.00005
	S1	-0.00001	-0.00000	0.00002
	S1	0.00157	0.00178	0.00249

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X1P4H7R	A	0.00178	0.00184	0.00209
	A	-0.00013	-0.00013	-0.00012
	A	0.00011	0.00011	0.00013
	A	0.00071	0.00076	0.00101
	B	0.00194	0.00199	0.00224
	B	-0.00013	-0.00013	-0.00011
	B	0.00010	0.00011	0.00012
	B	0.00088	0.00093	0.00119
	C	0.00236	0.00242	0.00268
	C	-0.00013	-0.00013	-0.00012
	C	0.00011	0.00011	0.00011
	C	0.00124	0.00129	0.00155
	D	0.00258	0.00263	0.00289
	D	-0.00013	-0.00013	-0.00011
	D	0.00011	0.00011	0.00011
	D	0.00140	0.00146	0.00172
	S0	0.00374	0.00404	0.00519
	S0	-0.00005	-0.00001	0.00005
	S0	0.00019	0.00023	0.00026
	S0	0.00357	0.00375	0.00438
	S1	0.00170	0.00191	0.00271
	S1	0.00000	0.00000	0.00002
	S1	0.00001	0.00003	0.00004
	S1	0.00198	0.00219	0.00285

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7R	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00009	0.00014	0.00032
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00011	0.00011	0.00011
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00009	-0.00009	-0.00008
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00096	0.00100	0.00118
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00007	-0.00006
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00025	0.00025	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7R	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00092	0.00097	0.00117
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00011	-0.00011	-0.00011
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00009	0.00009	0.00010
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00005	0.00011	0.00030
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00008	0.00008	0.00008
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00025	-0.00025	-0.00024

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7R	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00006	-0.00002	0.00016
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00011	0.00011	0.00011
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00009	-0.00009	-0.00008
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00079	0.00083	0.00101
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00013	-0.00012	-0.00011
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7R	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00107	0.00112	0.00132
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00011	-0.00011	-0.00011
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00009	0.00009	0.00010
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00022	0.00027	0.00047
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00013	0.00013	0.00013
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7R	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00007	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00018	0.00018	0.00019
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00029	0.00033	0.00048
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00011	0.00011	0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00009	-0.00009	-0.00009
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00120	0.00123	0.00139

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7R	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00008	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00018	-0.00017	-0.00017
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00117	0.00121	0.00138
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00010
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00009	0.00009	0.00009
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00026	0.00030	0.00047

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7R	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00008	0.00012	0.00027
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00011	0.00011	0.00011
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00009	-0.00009	-0.00009
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00105	0.00109	0.00123
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00013	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7R	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00138	0.00143	0.00159
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00011
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00009	0.00009	0.00009
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00042	0.00046	0.00063
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00013	0.00014	0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X1P4H7R	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00009	-0.00001	0.00031
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00003	0.00003	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00001	0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00145	0.00153	0.00186
	(A * B * C * !D * !S1 * Y)	0.00115	0.00123	0.00152
	(A * B * C * !D * !S1 * Y)	-0.00006	-0.00006	-0.00004
	(A * B * C * !D * !S1 * Y)	0.00004	0.00006	0.00007
	(A * B * C * !D * !S1 * Y)	0.00215	0.00224	0.00254
	(A * B * !C * D * !S1 * Y)	-0.00001	0.00015	0.00075
	(A * B * !C * D * !S1 * Y)	0.00011	0.00011	0.00011
	(A * B * !C * D * !S1 * Y)	-0.00009	-0.00008	-0.00007
	(A * B * !C * D * !S1 * Y)	0.00206	0.00222	0.00282
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00007	0.00002	0.00034
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00002	0.00003	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00001	-0.00000	0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00146	0.00155	0.00187
	(A * !B * C * D * S1 * Y)	0.00084	0.00093	0.00123
	(A * !B * C * D * S1 * Y)	-0.00007	-0.00006	-0.00006
	(A * !B * C * D * S1 * Y)	0.00005	0.00006	0.00007
	(A * !B * C * D * S1 * Y)	0.00195	0.00204	0.00234
	(A * !B * !C * !D * S1 * !Y)	0.00076	0.00085	0.00115
	(A * !B * !C * !D * S1 * !Y)	-0.00007	-0.00006	-0.00006
	(A * !B * !C * !D * S1 * !Y)	0.00006	0.00007	0.00010
	(A * !B * !C * !D * S1 * !Y)	0.00185	0.00194	0.00224
	(!A * B * C * D * S1 * Y)	-0.00016	0.00001	0.00067
	(!A * B * C * D * S1 * Y)	0.00011	0.00011	0.00011
	(!A * B * C * D * S1 * Y)	-0.00009	-0.00009	-0.00008
	(!A * B * C * D * S1 * Y)	0.00180	0.00198	0.00264
	(!A * B * !C * !D * S1 * !Y)	-0.00002	0.00016	0.00082
	(!A * B * !C * !D * S1 * !Y)	0.00009	0.00011	0.00012
	(!A * B * !C * !D * S1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A * B * !C * !D * S1 * !Y)	0.00192	0.00211	0.00278
	(!A * !B * C * !D * !S1 * !Y)	0.00102	0.00111	0.00140
	(!A * !B * C * !D * !S1 * !Y)	-0.00007	-0.00006	-0.00004
	(!A * !B * C * !D * !S1 * !Y)	0.00005	0.00006	0.00006
	(!A * !B * C * !D * !S1 * !Y)	0.00201	0.00211	0.00240
	(!A * !B * !C * D * !S1 * !Y)	0.00015	0.00032	0.00092
	(!A * !B * !C * D * !S1 * !Y)	0.00008	0.00011	0.00012
	(!A * !B * !C * D * !S1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A * !B * !C * D * !S1 * !Y)	0.00221	0.00237	0.00298

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X1P4H7R	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00131	0.00142	0.00178
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00003	-0.00002	-0.00002
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00000	0.00002	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00024	-0.00013	0.00023
	(A * B * C * !D * !S1 * Y)	0.00177	0.00186	0.00222
	(A * B * C * !D * !S1 * Y)	0.00006	0.00007	0.00009
	(A * B * C * !D * !S1 * Y)	-0.00006	-0.00005	-0.00004
	(A * B * C * !D * !S1 * Y)	0.00075	0.00086	0.00121
	(A * B * !C * D * !S1 * Y)	0.00212	0.00230	0.00297
	(A * B * !C * D * !S1 * Y)	-0.00011	-0.00011	-0.00011
	(A * B * !C * D * !S1 * Y)	0.00007	0.00008	0.00009
	(A * B * !C * D * !S1 * Y)	0.00005	0.00023	0.00090
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00128	0.00138	0.00175
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00002	-0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00000	0.00001	0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00024	-0.00014	0.00021
	(A * !B * C * D * S1 * Y)	0.00156	0.00166	0.00202
	(A * !B * C * D * S1 * Y)	0.00006	0.00007	0.00007
	(A * !B * C * D * S1 * Y)	-0.00006	-0.00006	-0.00005
	(A * !B * C * D * S1 * Y)	0.00046	0.00056	0.00092
	(A * !B * !C * !D * S1 * !Y)	0.00165	0.00174	0.00210
	(A * !B * !C * !D * S1 * !Y)	0.00006	0.00007	0.00008
	(A * !B * !C * !D * S1 * !Y)	-0.00007	-0.00006	-0.00006
	(A * !B * !C * !D * S1 * !Y)	0.00055	0.00065	0.00101
	(!A * B * C * D * S1 * Y)	0.00188	0.00208	0.00281
	(!A * B * C * D * S1 * Y)	-0.00011	-0.00011	-0.00011
	(!A * B * C * D * S1 * Y)	0.00008	0.00009	0.00009
	(!A * B * C * D * S1 * Y)	-0.00008	0.00012	0.00084
	(!A * B * !C * !D * S1 * !Y)	0.00174	0.00194	0.00266
	(!A * B * !C * !D * S1 * !Y)	-0.00012	-0.00011	-0.00009
	(!A * B * !C * !D * S1 * !Y)	0.00007	0.00008	0.00008
	(!A * B * !C * !D * S1 * !Y)	-0.00021	-0.00001	0.00070
	(!A * !B * C * !D * !S1 * !Y)	0.00189	0.00199	0.00235
	(!A * !B * C * !D * !S1 * !Y)	0.00006	0.00006	0.00007
	(!A * !B * C * !D * !S1 * !Y)	-0.00006	-0.00006	-0.00003
	(!A * !B * C * !D * !S1 * !Y)	0.00090	0.00100	0.00135
	(!A * !B * !C * D * !S1 * !Y)	0.00195	0.00213	0.00280
	(!A * !B * !C * D * !S1 * !Y)	-0.00012	-0.00011	-0.00008
	(!A * !B * !C * D * !S1 * !Y)	0.00008	0.00008	0.00008
	(!A * !B * !C * D * !S1 * !Y)	-0.00010	0.00008	0.00074

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7R	(B * D * S0 * Y)	-0.00011	-0.00000	0.00039
	(B * D * S0 * Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y)	-0.00002	-0.00001	-0.00000
	(B * D * S0 * Y)	0.00087	0.00098	0.00138
	(A * C * !S0 * Y)	-0.00011	-0.00000	0.00039
	(A * C * !S0 * Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y)	-0.00002	-0.00001	-0.00000
	(A * C * !S0 * Y)	0.00087	0.00098	0.00138
	(!B * !D * S0 * !Y)	-0.00001	0.00011	0.00050
	(!B * !D * S0 * !Y)	0.00002	0.00002	0.00003
	(!B * !D * S0 * !Y)	-0.00002	-0.00001	-0.00000
	(!B * !D * S0 * !Y)	0.00097	0.00109	0.00148
	(!A * !C * !S0 * !Y)	-0.00000	0.00011	0.00050
	(!A * !C * !S0 * !Y)	0.00000	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !C * !S0 * !Y)	0.00097	0.00108	0.00148

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X1P4H7R	(B * D * S0 * Y)	0.00086	0.00099	0.00142
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y)	0.00001	0.00002	0.00002
	(B * D * S0 * Y)	-0.00012	0.00000	0.00044
	(A * C * !S0 * Y)	0.00087	0.00099	0.00142
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y)	0.00000	0.00001	0.00002
	(A * C * !S0 * Y)	-0.00012	0.00001	0.00043
	(!B * !D * S0 * !Y)	0.00075	0.00087	0.00131
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00000	0.00001	0.00002
	(!B * !D * S0 * !Y)	-0.00023	-0.00010	0.00033
	(!A * !C * !S0 * !Y)	0.00075	0.00087	0.00131
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	0.00000
	(!A * !C * !S0 * !Y)	0.00001	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00023	-0.00010	0.00033

MUX4X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X2H7R	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X2H7R	0.00065	0.00061	0.00057	0.00066	0.00260	0.00156	0.08480

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X2H7R	0.00000	0.68013	1.04964

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X2H7R	A->Y (RR)	0.08213	0.24156	0.62231
	B->Y (RR)	0.08009	0.24011	0.62138
	C->Y (RR)	0.08898	0.25196	0.64125
	D->Y (RR)	0.08862	0.25187	0.64211
	S0->Y (-R)	0.11562	0.27874	0.66275
	S1->Y (-R)	0.06569	0.22251	0.59058

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X2H7R	A->Y (FF)	0.10277	0.24546	0.57143
	B->Y (FF)	0.10215	0.24515	0.57127
	C->Y (FF)	0.11431	0.26086	0.59451
	D->Y (FF)	0.11661	0.26260	0.59614
	S0->Y (-F)	0.11155	0.26125	0.60324
	S1->Y (-F)	0.06095	0.19901	0.51370

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X2H7R	A	0.00110	0.00116	0.00141
	A	0.00012	0.00012	0.00012
	A	-0.00011	-0.00010	-0.00008
	A	0.00213	0.00222	0.00246
	B	0.00093	0.00100	0.00125
	B	0.00012	0.00012	0.00012
	B	-0.00011	-0.00011	-0.00010
	B	0.00198	0.00205	0.00230
	C	0.00089	0.00095	0.00120
	C	0.00012	0.00012	0.00013
	C	-0.00011	-0.00010	-0.00008
	C	0.00197	0.00205	0.00230
	D	0.00068	0.00075	0.00099
	D	0.00012	0.00012	0.00012
	D	-0.00011	-0.00010	-0.00008
	D	0.00182	0.00190	0.00215
	S0	0.00347	0.00367	0.00435
	S0	0.00025	0.00026	0.00027
	S0	0.00002	0.00003	0.00012
	S0	0.00364	0.00394	0.00501
	S1	0.00188	0.00210	0.00277
	S1	0.00002	0.00003	0.00004
	S1	0.00000	0.00000	0.00002
	S1	0.00179	0.00200	0.00282

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X2H7R	A	0.00208	0.00216	0.00250
	A	-0.00012	-0.00012	-0.00010
	A	0.00010	0.00011	0.00011
	A	0.00102	0.00109	0.00143
	B	0.00224	0.00231	0.00265
	B	-0.00012	-0.00012	-0.00011
	B	0.00010	0.00011	0.00011
	B	0.00119	0.00126	0.00161
	C	0.00265	0.00272	0.00308
	C	-0.00013	-0.00012	-0.00011
	C	0.00010	0.00011	0.00011
	C	0.00154	0.00161	0.00197
	D	0.00286	0.00293	0.00328
	D	-0.00012	-0.00012	-0.00010
	D	0.00010	0.00011	0.00012
	D	0.00170	0.00177	0.00213
	S0	0.00402	0.00432	0.00562
	S0	-0.00003	0.00000	0.00007
	S0	0.00022	0.00022	0.00026
	S0	0.00388	0.00407	0.00474
	S1	0.00200	0.00222	0.00312
	S1	0.00001	0.00001	0.00003
	S1	0.00002	0.00003	0.00004
	S1	0.00229	0.00250	0.00315

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7R	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00009	0.00014	0.00032
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00011	0.00011	0.00011
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00009	-0.00009	-0.00009
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00096	0.00101	0.00118
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00007	-0.00006
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7R	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00093	0.00099	0.00118
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00011	-0.00011	-0.00010
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00009	0.00014	0.00042
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00022	0.00007	0.00031
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00008	0.00008	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7R	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00006	-0.00002	0.00016
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00011	0.00011	0.00011
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00009	-0.00009	-0.00009
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00079	0.00083	0.00102
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00013	-0.00012	-0.00011
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00019	0.00019	0.00020

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7R	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00109	0.00114	0.00133
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00011	-0.00011	-0.00011
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00009	0.00009	0.00009
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00023	0.00028	0.00048
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00013	0.00013	0.00013
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7R	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00008	-0.00007	-0.00007
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00018	0.00018	0.00019
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00029	0.00033	0.00048
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00011	0.00011	0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00009	-0.00009	-0.00009
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00120	0.00123	0.00139

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7R	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00008	0.00009	0.00009
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00018	-0.00017	-0.00017
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00114	0.00119	0.00136
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00011
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00009	0.00009	0.00010
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00023	0.00028	0.00045

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7R	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00009	0.00013	0.00027
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00011	0.00011	0.00011
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00009	-0.00009	-0.00009
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00105	0.00108	0.00123
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00013	-0.00013	-0.00012
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00000	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7R	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00135	0.00140	0.00156
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00011	-0.00011	-0.00011
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00009	0.00009	0.00009
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00040	0.00044	0.00061
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00014	0.00014	0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X2H7R	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00009	-0.00001	0.00031
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00002	0.00003	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00002	-0.00001	0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00145	0.00153	0.00186
	(A * B * C * !D * !S1 * Y)	0.00112	0.00120	0.00150
	(A * B * C * !D * !S1 * Y)	-0.00006	-0.00005	-0.00003
	(A * B * C * !D * !S1 * Y)	0.00005	0.00006	0.00007
	(A * B * C * !D * !S1 * Y)	0.00213	0.00222	0.00251
	(A * B * !C * D * !S1 * Y)	-0.00001	0.00015	0.00075
	(A * B * !C * D * !S1 * Y)	0.00011	0.00011	0.00012
	(A * B * !C * D * !S1 * Y)	-0.00009	-0.00008	-0.00006
	(A * B * !C * D * !S1 * Y)	0.00206	0.00222	0.00283
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00007	0.00002	0.00034
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00002	0.00003	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00001	-0.00001	0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00147	0.00156	0.00188
	(A * !B * C * D * S1 * Y)	0.00086	0.00095	0.00125
	(A * !B * C * D * S1 * Y)	-0.00007	-0.00007	-0.00006
	(A * !B * C * D * S1 * Y)	0.00005	0.00006	0.00007
	(A * !B * C * D * S1 * Y)	0.00197	0.00205	0.00236
	(A * !B * !C * !D * S1 * !Y)	0.00076	0.00085	0.00115
	(A * !B * !C * !D * S1 * !Y)	-0.00010	-0.00007	-0.00006
	(A * !B * !C * !D * S1 * !Y)	0.00004	0.00006	0.00007
	(A * !B * !C * !D * S1 * !Y)	0.00185	0.00194	0.00224
	(!A * B * C * D * S1 * Y)	-0.00016	0.00001	0.00067
	(!A * B * C * D * S1 * Y)	0.00011	0.00011	0.00012
	(!A * B * C * D * S1 * Y)	-0.00009	-0.00008	-0.00007
	(!A * B * C * D * S1 * Y)	0.00180	0.00198	0.00264
	(!A * B * !C * !D * S1 * !Y)	-0.00001	0.00017	0.00083
	(!A * B * !C * !D * S1 * !Y)	0.00008	0.00011	0.00011
	(!A * B * !C * !D * S1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A * B * !C * !D * S1 * !Y)	0.00195	0.00212	0.00279
	(!A * !B * C * !D * !S1 * !Y)	0.00098	0.00107	0.00137
	(!A * !B * C * !D * !S1 * !Y)	-0.00007	-0.00006	-0.00005
	(!A * !B * C * !D * !S1 * !Y)	0.00004	0.00006	0.00007
	(!A * !B * C * !D * !S1 * !Y)	0.00198	0.00207	0.00236
	(!A * !B * !C * D * !S1 * !Y)	0.00017	0.00033	0.00094
	(!A * !B * !C * D * !S1 * !Y)	0.00010	0.00011	0.00011
	(!A * !B * !C * D * !S1 * !Y)	-0.00009	-0.00008	-0.00007
	(!A * !B * !C * D * !S1 * !Y)	0.00222	0.00239	0.00300

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X2H7R	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00131	0.00142	0.00178
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00003	-0.00002	-0.00002
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00000	0.00002	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00023	-0.00013	0.00023
	(A * B * C * !D * !S1 * Y)	0.00177	0.00187	0.00223
	(A * B * C * !D * !S1 * Y)	0.00004	0.00006	0.00007
	(A * B * C * !D * !S1 * Y)	-0.00006	-0.00006	-0.00004
	(A * B * C * !D * !S1 * Y)	0.00076	0.00085	0.00121
	(A * B * !C * D * !S1 * Y)	0.00209	0.00228	0.00295
	(A * B * !C * D * !S1 * Y)	-0.00011	-0.00011	-0.00010
	(A * B * !C * D * !S1 * Y)	0.00008	0.00009	0.00010
	(A * B * !C * D * !S1 * Y)	0.00002	0.00020	0.00088
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00128	0.00138	0.00175
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00003	-0.00002	-0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00000	0.00001	0.00001
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00025	-0.00015	0.00021
	(A * !B * C * D * S1 * Y)	0.00156	0.00166	0.00202
	(A * !B * C * D * S1 * Y)	0.00006	0.00007	0.00007
	(A * !B * C * D * S1 * Y)	-0.00006	-0.00005	-0.00003
	(A * !B * C * D * S1 * Y)	0.00045	0.00055	0.00091
	(A * !B * !C * !D * S1 * !Y)	0.00166	0.00176	0.00211
	(A * !B * !C * !D * S1 * !Y)	0.00006	0.00007	0.00010
	(A * !B * !C * !D * S1 * !Y)	-0.00007	-0.00006	-0.00004
	(A * !B * !C * !D * S1 * !Y)	0.00056	0.00066	0.00102
	(!A * B * C * D * S1 * Y)	0.00190	0.00210	0.00282
	(!A * B * C * D * S1 * Y)	-0.00011	-0.00011	-0.00010
	(!A * B * C * D * S1 * Y)	0.00007	0.00009	0.00009
	(!A * B * C * D * S1 * Y)	-0.00008	0.00013	0.00085
	(!A * B * !C * !D * S1 * !Y)	0.00174	0.00194	0.00266
	(!A * B * !C * !D * S1 * !Y)	-0.00011	-0.00011	-0.00008
	(!A * B * !C * !D * S1 * !Y)	0.00008	0.00008	0.00009
	(!A * B * !C * !D * S1 * !Y)	-0.00022	-0.00002	0.00070
	(!A * !B * C * !D * !S1 * !Y)	0.00191	0.00200	0.00236
	(!A * !B * C * !D * !S1 * !Y)	0.00005	0.00006	0.00008
	(!A * !B * C * !D * !S1 * !Y)	-0.00006	-0.00006	-0.00004
	(!A * !B * C * !D * !S1 * !Y)	0.00091	0.00101	0.00136
	(!A * !B * !C * D * !S1 * !Y)	0.00191	0.00210	0.00276
	(!A * !B * !C * D * !S1 * !Y)	-0.00011	-0.00010	-0.00008
	(!A * !B * !C * D * !S1 * !Y)	0.00008	0.00008	0.00009
	(!A * !B * !C * D * !S1 * !Y)	-0.00014	0.00004	0.00071

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7R	(B * D * S0 * Y)	-0.00011	-0.00000	0.00039
	(B * D * S0 * Y)	0.00001	0.00002	0.00002
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00001
	(B * D * S0 * Y)	0.00087	0.00097	0.00137
	(A * C * !S0 * Y)	-0.00011	-0.00000	0.00039
	(A * C * !S0 * Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00001
	(A * C * !S0 * Y)	0.00087	0.00097	0.00136
	(!B * !D * S0 * !Y)	0.00000	0.00011	0.00051
	(!B * !D * S0 * !Y)	0.00000	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00097	0.00108	0.00148
	(!A * !C * !S0 * !Y)	0.00000	0.00011	0.00051
	(!A * !C * !S0 * !Y)	0.00002	0.00002	0.00003
	(!A * !C * !S0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A * !C * !S0 * !Y)	0.00097	0.00108	0.00148

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X2H7R	(B * D * S0 * Y)	0.00087	0.00099	0.00142
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00000
	(B * D * S0 * Y)	0.00001	0.00002	0.00002
	(B * D * S0 * Y)	-0.00011	0.00001	0.00044
	(A * C * !S0 * Y)	0.00086	0.00099	0.00142
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00000
	(A * C * !S0 * Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y)	-0.00011	0.00001	0.00045
	(!B * !D * S0 * !Y)	0.00075	0.00087	0.00130
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00000
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00003
	(!B * !D * S0 * !Y)	-0.00023	-0.00010	0.00033
	(!A * !C * !S0 * !Y)	0.00075	0.00087	0.00130
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * !S0 * !Y)	0.00001	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00022	-0.00010	0.00033

MUX4X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X3H7R	7.00000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X3H7R	0.00074	0.00069	0.00065	0.00070	0.00292	0.00166	0.12034

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X3H7R	0.00000	0.86066	1.32164

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X3H7R	A->Y (RR)	0.07466	0.23366	0.61381
	B->Y (RR)	0.07263	0.23226	0.61203
	C->Y (RR)	0.07853	0.24041	0.62650
	D->Y (RR)	0.07847	0.24084	0.62750
	S0->Y (-R)	0.10164	0.26389	0.64649
	S1->Y (-R)	0.06032	0.21778	0.58743

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X3H7R	A->Y (FF)	0.09444	0.23700	0.56222
	B->Y (FF)	0.09397	0.23682	0.56220
	C->Y (FF)	0.10262	0.24813	0.57925
	D->Y (FF)	0.10502	0.25030	0.58091
	S0->Y (-F)	0.10025	0.24848	0.58664
	S1->Y (-F)	0.05492	0.19274	0.50594

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X3H7R	A	0.00133	0.00141	0.00173
	A	0.00015	0.00015	0.00015
	A	-0.00013	-0.00013	-0.00009
	A	0.00253	0.00264	0.00296
	B	0.00110	0.00118	0.00151
	B	0.00015	0.00015	0.00016
	B	-0.00013	-0.00013	-0.00010
	B	0.00229	0.00241	0.00274
	C	0.00105	0.00112	0.00146
	C	0.00015	0.00015	0.00015
	C	-0.00013	-0.00013	-0.00010
	C	0.00229	0.00239	0.00273
	D	0.00083	0.00090	0.00123
	D	0.00015	0.00015	0.00015
	D	-0.00013	-0.00013	-0.00007
	D	0.00212	0.00222	0.00254
	S0	0.00396	0.00423	0.00510
	S0	0.00033	0.00033	0.00033
	S0	-0.00000	0.00001	0.00010
	S0	0.00418	0.00453	0.00591
	S1	0.00213	0.00238	0.00313
	S1	0.00002	0.00003	0.00007
	S1	0.00000	0.00001	0.00002
	S1	0.00201	0.00226	0.00322

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X3H7R	A	0.00241	0.00250	0.00296
	A	-0.00015	-0.00015	-0.00013
	A	0.00013	0.00013	0.00013
	A	0.00116	0.00126	0.00171
	B	0.00263	0.00271	0.00317
	B	-0.00016	-0.00015	-0.00015
	B	0.00013	0.00013	0.00013
	B	0.00140	0.00149	0.00195
	C	0.00300	0.00309	0.00357
	C	-0.00015	-0.00015	-0.00014
	C	0.00013	0.00013	0.00013
	C	0.00172	0.00181	0.00229
	D	0.00326	0.00335	0.00382
	D	-0.00015	-0.00015	-0.00014
	D	0.00007	0.00013	0.00013
	D	0.00195	0.00203	0.00250
	S0	0.00454	0.00492	0.00658
	S0	0.00004	0.00006	0.00010
	S0	0.00024	0.00028	0.00028
	S0	0.00435	0.00459	0.00546
	S1	0.00221	0.00246	0.00353
	S1	0.00000	0.00002	0.00004
	S1	0.00001	0.00003	0.00005
	S1	0.00255	0.00278	0.00350

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7R	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00014	0.00019	0.00040
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00014	0.00014	0.00014
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00012	-0.00012	-0.00011
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00116	0.00122	0.00142
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00010	-0.00009	-0.00008
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00028	0.00028	0.00029

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7R	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00109	0.00115	0.00138
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00014	-0.00014	-0.00014
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00012	0.00012	0.00012
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00006	0.00012	0.00035
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00010	0.00010	0.00010
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00027	-0.00027	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7R	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00008	-0.00003	0.00018
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00014	0.00014	0.00015
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00012	-0.00012	-0.00012
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00093	0.00098	0.00120
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00015	-0.00015	-0.00013
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7R	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00130	0.00136	0.00159
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00015	-0.00014	-0.00014
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00012	0.00012	0.00012
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00029	0.00035	0.00059
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00015	0.00016	0.00016
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7R	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00010	-0.00010	-0.00008
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00020	0.00020	0.00021
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00030	0.00035	0.00054
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00014	0.00014	0.00015
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00012	-0.00012	-0.00012
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00135	0.00140	0.00159

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7R	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00011	0.00011	0.00011
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00020	-0.00019	-0.00019
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00128	0.00134	0.00155
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00014	-0.00014	-0.00014
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00012	0.00012	0.00012
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00023	0.00028	0.00049

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7R	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00008	0.00013	0.00031
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00014	0.00014	0.00014
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00012	-0.00012	-0.00012
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00118	0.00122	0.00141
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00015	-0.00014	-0.00013
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7R	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00154	0.00159	0.00179
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00014	-0.00014	-0.00014
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00012	0.00012	0.00013
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00045	0.00050	0.00070
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00015	0.00015	0.00015
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X3H7R	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00011	-0.00000	0.00041
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00003	0.00004	0.00004
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00003	-0.00002	-0.00000
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00161	0.00172	0.00213
	(A * B * C * !D * !S1 * Y)	0.00124	0.00134	0.00173
	(A * B * C * !D * !S1 * Y)	-0.00009	-0.00009	-0.00008
	(A * B * C * !D * !S1 * Y)	0.00006	0.00008	0.00011
	(A * B * C * !D * !S1 * Y)	0.00233	0.00243	0.00282
	(A * B * !C * D * !S1 * Y)	-0.00004	0.00017	0.00094
	(A * B * !C * D * !S1 * Y)	0.00015	0.00015	0.00015
	(A * B * !C * D * !S1 * Y)	-0.00011	-0.00011	-0.00010
	(A * B * !C * D * !S1 * Y)	0.00227	0.00248	0.00326
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00007	0.00004	0.00044
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00002	0.00003	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00002	-0.00001	0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00161	0.00172	0.00213
	(A * !B * C * D * S1 * Y)	0.00102	0.00113	0.00152
	(A * !B * C * D * S1 * Y)	-0.00008	-0.00008	-0.00007
	(A * !B * C * D * S1 * Y)	0.00007	0.00008	0.00009
	(A * !B * C * D * S1 * Y)	0.00222	0.00233	0.00271
	(A * !B * !C * !D * S1 * !Y)	0.00092	0.00103	0.00142
	(A * !B * !C * !D * S1 * !Y)	-0.00009	-0.00008	-0.00007
	(A * !B * !C * !D * S1 * !Y)	0.00006	0.00008	0.00009
	(A * !B * !C * !D * S1 * !Y)	0.00208	0.00220	0.00258
	(!A * B * C * D * S1 * Y)	-0.00020	0.00003	0.00086
	(!A * B * C * D * S1 * Y)	0.00015	0.00015	0.00015
	(!A * B * C * D * S1 * Y)	-0.00011	-0.00010	-0.00009
	(!A * B * C * D * S1 * Y)	0.00202	0.00225	0.00309
	(!A * B * !C * !D * S1 * !Y)	-0.00002	0.00020	0.00104
	(!A * B * !C * !D * S1 * !Y)	0.00012	0.00014	0.00014
	(!A * B * !C * !D * S1 * !Y)	-0.00011	-0.00010	-0.00010
	(!A * B * !C * !D * S1 * !Y)	0.00217	0.00239	0.00323
	(!A * !B * C * !D * !S1 * !Y)	0.00111	0.00122	0.00160
	(!A * !B * C * !D * !S1 * !Y)	-0.00009	-0.00008	-0.00008
	(!A * !B * C * !D * !S1 * !Y)	0.00007	0.00008	0.00009
	(!A * !B * C * !D * !S1 * !Y)	0.00219	0.00230	0.00268
	(!A * !B * !C * D * !S1 * !Y)	0.00016	0.00038	0.00115
	(!A * !B * !C * D * !S1 * !Y)	0.00014	0.00015	0.00016
	(!A * !B * !C * D * !S1 * !Y)	-0.00011	-0.00010	-0.00009
	(!A * !B * !C * D * !S1 * !Y)	0.00246	0.00267	0.00345

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X3H7R	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00146	0.00159	0.00205
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00003	-0.00003	-0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00000	0.00002	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00025	-0.00012	0.00033
	(A * B * C * !D * !S1 * Y)	0.00195	0.00207	0.00253
	(A * B * C * !D * !S1 * Y)	0.00008	0.00009	0.00010
	(A * B * C * !D * !S1 * Y)	-0.00011	-0.00008	-0.00006
	(A * B * C * !D * !S1 * Y)	0.00087	0.00099	0.00144
	(A * B * !C * D * !S1 * Y)	0.00233	0.00257	0.00341
	(A * B * !C * D * !S1 * Y)	-0.00015	-0.00015	-0.00014
	(A * B * !C * D * !S1 * Y)	0.00010	0.00011	0.00011
	(A * B * !C * D * !S1 * Y)	0.00003	0.00026	0.00109
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00144	0.00157	0.00202
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00003	-0.00002	-0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00001	0.00001	0.00002
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00023	-0.00011	0.00034
	(A * !B * C * D * S1 * Y)	0.00177	0.00190	0.00235
	(A * !B * C * D * S1 * Y)	0.00007	0.00008	0.00009
	(A * !B * C * D * S1 * Y)	-0.00008	-0.00007	-0.00004
	(A * !B * C * D * S1 * Y)	0.00058	0.00070	0.00116
	(A * !B * !C * !D * S1 * !Y)	0.00190	0.00202	0.00246
	(A * !B * !C * !D * S1 * !Y)	0.00008	0.00009	0.00012
	(A * !B * !C * !D * S1 * !Y)	-0.00008	-0.00008	-0.00006
	(A * !B * !C * !D * S1 * !Y)	0.00073	0.00086	0.00130
	(!A * B * C * D * S1 * Y)	0.00210	0.00236	0.00326
	(!A * B * C * D * S1 * Y)	-0.00015	-0.00015	-0.00015
	(!A * B * C * D * S1 * Y)	0.00009	0.00011	0.00011
	(!A * B * C * D * S1 * Y)	-0.00012	0.00014	0.00103
	(!A * B * !C * !D * S1 * !Y)	0.00194	0.00220	0.00309
	(!A * B * !C * !D * S1 * !Y)	-0.00014	-0.00013	-0.00012
	(!A * B * !C * !D * S1 * !Y)	0.00010	0.00010	0.00011
	(!A * B * !C * !D * S1 * !Y)	-0.00024	0.00000	0.00089
	(!A * !B * C * !D * !S1 * !Y)	0.00207	0.00219	0.00264
	(!A * !B * C * !D * !S1 * !Y)	0.00008	0.00009	0.00010
	(!A * !B * C * !D * !S1 * !Y)	-0.00009	-0.00008	-0.00007
	(!A * !B * C * !D * !S1 * !Y)	0.00100	0.00113	0.00157
	(!A * !B * !C * D * !S1 * !Y)	0.00212	0.00235	0.00319
	(!A * !B * !C * D * !S1 * !Y)	-0.00015	-0.00014	-0.00012
	(!A * !B * !C * D * !S1 * !Y)	0.00010	0.00011	0.00011
	(!A * !B * !C * D * !S1 * !Y)	-0.00017	0.00006	0.00089

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7R	(B * D * S0 * Y)	-0.00011	-0.00000	0.00039
	(B * D * S0 * Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y)	0.00092	0.00103	0.00142
	(A * C * !S0 * Y)	-0.00011	-0.00000	0.00039
	(A * C * !S0 * Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y)	0.00092	0.00103	0.00142
	(!B * !D * S0 * !Y)	0.00001	0.00012	0.00052
	(!B * !D * S0 * !Y)	0.00002	0.00002	0.00004
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00102	0.00114	0.00155
	(!A * !C * !S0 * !Y)	0.00001	0.00012	0.00052
	(!A * !C * !S0 * !Y)	0.00002	0.00002	0.00004
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A * !C * !S0 * !Y)	0.00102	0.00114	0.00155

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X3H7R	(B * D * S0 * Y)	0.00092	0.00104	0.00148
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00001
	(B * D * S0 * Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y)	-0.00011	0.00002	0.00046
	(A * C * !S0 * Y)	0.00092	0.00105	0.00149
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y)	-0.00011	0.00002	0.00046
	(!B * !D * S0 * !Y)	0.00080	0.00092	0.00136
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00023	-0.00010	0.00033
	(!A * !C * !S0 * !Y)	0.00079	0.00092	0.00136
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00023	-0.00010	0.00033

MUX4X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X4H7R	8.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X4H7R	0.00083	0.00075	0.00079	0.00078	0.00397	0.00184	0.16103

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X4H7R	0.00000	1.05771	1.62711

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X4H7R	A->Y (RR)	0.07597	0.23621	0.61784
	B->Y (RR)	0.07420	0.23522	0.61703
	C->Y (RR)	0.08427	0.24880	0.64053
	D->Y (RR)	0.08256	0.24760	0.64005
	S0->Y (-R)	0.10839	0.27123	0.65273
	S1->Y (-R)	0.06493	0.22503	0.59918

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X4H7R	A->Y (FF)	0.09727	0.24173	0.56849
	B->Y (FF)	0.09680	0.24166	0.56872
	C->Y (FF)	0.11057	0.25920	0.59568
	D->Y (FF)	0.11147	0.25983	0.59592
	S0->Y (-F)	0.10558	0.25616	0.59843
	S1->Y (-F)	0.05874	0.19919	0.51590

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X4H7R	A	0.00173	0.00183	0.00227
	A	0.00017	0.00018	0.00021
	A	-0.00016	-0.00015	-0.00013
	A	0.00323	0.00334	0.00378
	B	0.00154	0.00164	0.00209
	B	0.00018	0.00018	0.00018
	B	-0.00016	-0.00015	-0.00010
	B	0.00298	0.00313	0.00357
	C	0.00155	0.00165	0.00211
	C	0.00018	0.00018	0.00018
	C	-0.00016	-0.00015	-0.00012
	C	0.00307	0.00317	0.00364
	D	0.00119	0.00129	0.00175
	D	0.00018	0.00018	0.00018
	D	-0.00016	-0.00015	-0.00015
	D	0.00273	0.00283	0.00329
	S0	0.00506	0.00537	0.00637
	S0	0.00039	0.00040	0.00041
	S0	-0.00031	-0.00025	0.00041
	S0	0.00488	0.00575	0.00744
	S1	0.00274	0.00302	0.00383
	S1	0.00002	0.00002	0.00004
	S1	0.00000	0.00001	0.00004
	S1	0.00253	0.00281	0.00400

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X4H7R	A	0.00308	0.00322	0.00386
	A	-0.00019	-0.00018	-0.00014
	A	0.00015	0.00015	0.00016
	A	0.00157	0.00169	0.00234
	B	0.00330	0.00342	0.00407
	B	-0.00018	-0.00018	-0.00016
	B	0.00015	0.00015	0.00018
	B	0.00181	0.00193	0.00258
	C	0.00391	0.00405	0.00472
	C	-0.00018	-0.00018	-0.00012
	C	0.00015	0.00015	0.00016
	C	0.00238	0.00251	0.00319
	D	0.00428	0.00441	0.00508
	D	-0.00018	-0.00018	-0.00018
	D	0.00015	0.00015	0.00016
	D	0.00274	0.00286	0.00354
	S0	0.00590	0.00636	0.00845
	S0	0.00002	0.00007	0.00013
	S0	0.00033	0.00034	0.00037
	S0	0.00582	0.00611	0.00714
	S1	0.00268	0.00298	0.00432
	S1	0.00000	0.00002	0.00005
	S1	0.00002	0.00003	0.00005
	S1	0.00320	0.00346	0.00427

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7R	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00009	0.00015	0.00039
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00017	0.00018	0.00018
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00015	-0.00015	-0.00014
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00134	0.00140	0.00164
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00012	-0.00011	-0.00010
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00029	0.00029	0.00030

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7R	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00134	0.00141	0.00168
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00018	-0.00018	-0.00017
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00014	0.00015	0.00015
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00008	0.00015	0.00042
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00013	0.00013	0.00013
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00029	-0.00028	-0.00028

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7R	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00010	-0.00003	0.00021
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00017	0.00018	0.00018
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00015	-0.00015	-0.00014
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00113	0.00119	0.00144
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00015	-0.00014	-0.00013
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00022	0.00023	0.00024

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7R	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00154	0.00161	0.00187
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00018	-0.00018	-0.00017
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00014	0.00015	0.00015
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00032	0.00039	0.00065
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00015	0.00015	0.00015
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7R	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00012	-0.00011	-0.00010
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00025	0.00025	0.00026
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00041	0.00046	0.00066
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00017	0.00018	0.00018
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00015	-0.00015	-0.00014
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00167	0.00172	0.00192

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7R	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00012	0.00013	0.00013
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00001	0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00001	-0.00001	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00025	-0.00024	-0.00024
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00171	0.00177	0.00200
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00018	-0.00018	-0.00017
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00014	0.00015	0.00015
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00045	0.00050	0.00073

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7R	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00005	0.00010	0.00030
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00018	0.00018	0.00019
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00015	-0.00015	-0.00014
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00133	0.00138	0.00158
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00018	-0.00017	-0.00016
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00020	0.00021	0.00022

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7R	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00207	0.00213	0.00235
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00018	-0.00018	-0.00018
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00014	0.00015	0.00015
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00079	0.00085	0.00107
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00018	0.00018	0.00018
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00001	0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00001	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X4H7R	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00019	-0.00006	0.00040
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00004	0.00004	0.00004
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00003	-0.00002	0.00000
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00204	0.00217	0.00263
	(A * B * C * !D * !S1 * Y)	0.00170	0.00183	0.00223
	(A * B * C * !D * !S1 * Y)	-0.00011	-0.00010	-0.00009
	(A * B * C * !D * !S1 * Y)	0.00007	0.00009	0.00009
	(A * B * C * !D * !S1 * Y)	0.00320	0.00333	0.00374
	(A * B * !C * D * !S1 * Y)	-0.00018	0.00006	0.00095
	(A * B * !C * D * !S1 * Y)	0.00018	0.00018	0.00018
	(A * B * !C * D * !S1 * Y)	-0.00015	-0.00014	-0.00013
	(A * B * !C * D * !S1 * Y)	0.00278	0.00302	0.00391
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00016	-0.00003	0.00044
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00003	0.00004	0.00005
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00004	-0.00002	0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00207	0.00221	0.00268
	(A * !B * C * D * S1 * Y)	0.00109	0.00122	0.00166
	(A * !B * C * D * S1 * Y)	-0.00011	-0.00010	-0.00009
	(A * !B * C * D * S1 * Y)	0.00008	0.00009	0.00010
	(A * !B * C * D * S1 * Y)	0.00260	0.00274	0.00317
	(A * !B * !C * !D * S1 * !Y)	0.00095	0.00109	0.00153
	(A * !B * !C * !D * S1 * !Y)	-0.00011	-0.00010	-0.00009
	(A * !B * !C * !D * S1 * !Y)	0.00007	0.00009	0.00009
	(A * !B * !C * !D * S1 * !Y)	0.00247	0.00262	0.00305
	(!A * B * C * D * S1 * Y)	-0.00031	-0.00005	0.00089
	(!A * B * C * D * S1 * Y)	0.00017	0.00018	0.00018
	(!A * B * C * D * S1 * Y)	-0.00016	-0.00014	-0.00013
	(!A * B * C * D * S1 * Y)	0.00259	0.00285	0.00380
	(!A * B * !C * !D * S1 * !Y)	-0.00011	0.00015	0.00110
	(!A * B * !C * !D * S1 * !Y)	0.00017	0.00018	0.00021
	(!A * B * !C * !D * S1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A * B * !C * !D * S1 * !Y)	0.00278	0.00305	0.00401
	(!A * !B * C * !D * !S1 * !Y)	0.00146	0.00159	0.00200
	(!A * !B * C * !D * !S1 * !Y)	-0.00011	-0.00010	-0.00007
	(!A * !B * C * !D * !S1 * !Y)	0.00007	0.00010	0.00011
	(!A * !B * C * !D * !S1 * !Y)	0.00292	0.00305	0.00346
	(!A * !B * !C * D * !S1 * !Y)	-0.00004	0.00020	0.00109
	(!A * !B * !C * D * !S1 * !Y)	0.00014	0.00017	0.00018
	(!A * !B * !C * D * !S1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A * !B * !C * D * !S1 * !Y)	0.00288	0.00313	0.00402

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X4H7R	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00180	0.00194	0.00247
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00004	-0.00003	-0.00002
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00000	0.00002	0.00003
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00043	-0.00027	0.00025
	(A * B * C * !D * !S1 * Y)	0.00245	0.00259	0.00309
	(A * B * C * !D * !S1 * Y)	0.00009	0.00010	0.00011
	(A * B * C * !D * !S1 * Y)	-0.00009	-0.00009	-0.00007
	(A * B * C * !D * !S1 * Y)	0.00094	0.00110	0.00159
	(A * B * !C * D * !S1 * Y)	0.00295	0.00323	0.00419
	(A * B * !C * D * !S1 * Y)	-0.00018	-0.00018	-0.00017
	(A * B * !C * D * !S1 * Y)	0.00014	0.00015	0.00017
	(A * B * !C * D * !S1 * Y)	0.00000	0.00027	0.00123
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00176	0.00190	0.00242
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00005	-0.00004	-0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00000	0.00003	0.00004
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00047	-0.00032	0.00019
	(A * !B * C * D * S1 * Y)	0.00213	0.00228	0.00279
	(A * !B * C * D * S1 * Y)	0.00009	0.00011	0.00012
	(A * !B * C * D * S1 * Y)	-0.00009	-0.00008	-0.00005
	(A * !B * C * D * S1 * Y)	0.00061	0.00076	0.00128
	(A * !B * !C * !D * S1 * !Y)	0.00225	0.00240	0.00291
	(A * !B * !C * !D * S1 * !Y)	0.00009	0.00011	0.00012
	(A * !B * !C * !D * S1 * !Y)	-0.00009	-0.00009	-0.00007
	(A * !B * !C * !D * S1 * !Y)	0.00074	0.00089	0.00139
	(!A * B * C * D * S1 * Y)	0.00272	0.00301	0.00403
	(!A * B * C * D * S1 * Y)	-0.00018	-0.00017	-0.00016
	(!A * B * C * D * S1 * Y)	0.00013	0.00015	0.00016
	(!A * B * C * D * S1 * Y)	-0.00019	0.00011	0.00112
	(!A * B * !C * !D * S1 * !Y)	0.00252	0.00280	0.00382
	(!A * B * !C * !D * S1 * !Y)	-0.00018	-0.00017	-0.00014
	(!A * B * !C * !D * S1 * !Y)	0.00014	0.00014	0.00015
	(!A * B * !C * !D * S1 * !Y)	-0.00038	-0.00010	0.00091
	(!A * !B * C * !D * !S1 * !Y)	0.00271	0.00285	0.00334
	(!A * !B * C * !D * !S1 * !Y)	0.00007	0.00011	0.00013
	(!A * !B * C * !D * !S1 * !Y)	-0.00010	-0.00009	-0.00007
	(!A * !B * C * !D * !S1 * !Y)	0.00124	0.00138	0.00187
	(!A * !B * !C * D * !S1 * !Y)	0.00283	0.00310	0.00405
	(!A * !B * !C * D * !S1 * !Y)	-0.00017	-0.00017	-0.00014
	(!A * !B * !C * D * !S1 * !Y)	0.00013	0.00014	0.00014
	(!A * !B * !C * D * !S1 * !Y)	-0.00009	0.00017	0.00112

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7R	(B * D * S0 * Y)	-0.00010	0.00002	0.00041
	(B * D * S0 * Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y)	-0.00002	-0.00001	0.00000
	(B * D * S0 * Y)	0.00102	0.00113	0.00154
	(A * C * !S0 * Y)	-0.00010	0.00001	0.00042
	(A * C * !S0 * Y)	0.00002	0.00002	0.00003
	(A * C * !S0 * Y)	-0.00002	-0.00001	0.00001
	(A * C * !S0 * Y)	0.00102	0.00113	0.00154
	(!B * !D * S0 * !Y)	0.00002	0.00014	0.00054
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00003
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00113	0.00125	0.00166
	(!A * !C * !S0 * !Y)	0.00002	0.00014	0.00054
	(!A * !C * !S0 * !Y)	0.00000	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !C * !S0 * !Y)	0.00113	0.00125	0.00166

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X4H7R	(B * D * S0 * Y)	0.00097	0.00110	0.00155
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y)	0.00002	0.00002	0.00004
	(B * D * S0 * Y)	-0.00014	-0.00002	0.00043
	(A * C * !S0 * Y)	0.00098	0.00110	0.00155
	(A * C * !S0 * Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y)	0.00002	0.00002	0.00003
	(A * C * !S0 * Y)	-0.00014	-0.00002	0.00043
	(!B * !D * S0 * !Y)	0.00085	0.00098	0.00142
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(!B * !D * S0 * !Y)	-0.00025	-0.00013	0.00031
	(!A * !C * !S0 * !Y)	0.00085	0.00098	0.00142
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00000
	(!A * !C * !S0 * !Y)	0.00001	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00025	-0.00013	0.00031

MUX4X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

MUX4, In: A, B, C, D, S0, S1, Out: Y

Truth Table

INPUT						OUTPUT
A	B	C	D	S0	S1	Y
0	0	0	0	x	x	0
0	x	0	1	0	x	0
x	0	x	1	1	0	0
x	x	x	1	1	1	1
0	0	1	x	x	0	0
0	x	1	x	0	1	1
0	x	1	0	1	1	0
0	1	0	x	0	x	0
0	1	x	x	1	0	1
0	1	x	0	1	1	0
0	1	1	x	0	0	0
1	0	0	x	0	0	1
1	x	0	0	x	1	0
1	0	x	0	1	x	0
1	x	0	1	0	1	0
1	x	1	x	0	x	1
1	1	0	x	x	0	1
1	1	1	x	1	0	1
1	1	1	0	1	1	0

Footprint

Cell Name	Area
MUX4X6H7R	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A	B	C	D	S0	S1	Y
MUX4X6H7R	0.00094	0.00084	0.00084	0.00084	0.00445	0.00185	0.23986

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUX4X6H7R	0.00000	1.31988	2.00497

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X6H7R	A->Y (RR)	0.07822	0.24013	0.62248
	B->Y (RR)	0.07653	0.23917	0.62303
	C->Y (RR)	0.08687	0.25271	0.64533
	D->Y (RR)	0.08512	0.25154	0.64528
	S0->Y (-R)	0.11083	0.27478	0.65649
	S1->Y (-R)	0.06534	0.22506	0.59548

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
MUX4X6H7R	A->Y (FF)	0.10039	0.24828	0.57939
	B->Y (FF)	0.09997	0.24818	0.57944
	C->Y (FF)	0.11337	0.26494	0.60502
	D->Y (FF)	0.11458	0.26587	0.60546
	S0->Y (-F)	0.10728	0.26080	0.60631
	S1->Y (-F)	0.06550	0.21095	0.53776

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X6H7R	A	0.00226	0.00240	0.00310
	A	0.00017	0.00017	0.00017
	A	-0.00014	-0.00014	-0.00012
	A	0.00386	0.00400	0.00470
	B	0.00204	0.00218	0.00289
	B	0.00017	0.00017	0.00017
	B	-0.00015	-0.00014	-0.00002
	B	0.00350	0.00373	0.00443
	C	0.00217	0.00231	0.00304
	C	0.00017	0.00017	0.00017
	C	-0.00015	-0.00015	-0.00014
	C	0.00374	0.00388	0.00461
	D	0.00171	0.00186	0.00258
	D	0.00017	0.00017	0.00017
	D	-0.00015	-0.00014	-0.00005
	D	0.00322	0.00343	0.00416
	S0	0.00594	0.00637	0.00754
	S0	0.00042	0.00043	0.00044
	S0	0.00004	0.00004	0.00019
	S0	0.00602	0.00666	0.00894
	S1	0.00327	0.00359	0.00454
	S1	-0.00002	-0.00001	0.00000
	S1	0.00001	0.00004	0.00009
	S1	0.00297	0.00336	0.00509

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
MUX4X6H7R	A	0.00388	0.00406	0.00510
	A	-0.00017	-0.00017	-0.00017
	A	0.00014	0.00014	0.00014
	A	0.00227	0.00245	0.00349
	B	0.00411	0.00429	0.00533
	B	-0.00017	-0.00017	-0.00013
	B	0.00013	0.00014	0.00015
	B	0.00256	0.00273	0.00378
	C	0.00471	0.00490	0.00598
	C	-0.00017	-0.00017	-0.00016
	C	0.00014	0.00015	0.00015
	C	0.00313	0.00331	0.00440
	D	0.00517	0.00536	0.00643
	D	-0.00017	-0.00017	-0.00013
	D	0.00014	0.00015	0.00015
	D	0.00358	0.00377	0.00485
	S0	0.00688	0.00748	0.01035
	S0	0.00005	0.00013	0.00022
	S0	0.00028	0.00030	0.00037
	S0	0.00702	0.00740	0.00876
	S1	0.00334	0.00370	0.00564
	S1	0.00003	0.00007	0.00010
	S1	-0.00001	-0.00000	0.00001
	S1	0.00386	0.00417	0.00521

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7R	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00010	0.00017	0.00045
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00020	0.00021	0.00021
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00017	-0.00017	-0.00016
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00153	0.00160	0.00187
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00015	-0.00013	-0.00012
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00001	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00032	0.00032	0.00033

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7R	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00152	0.00160	0.00190
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	-0.00021	-0.00021	-0.00020
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00016	0.00017	0.00017
	(C * !S0 * S1 * Y) + (!C * !S0 * S1 * !Y)	0.00009	0.00017	0.00048
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00015	0.00015	0.00015
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00032	-0.00032	-0.00031

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7R	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00011	-0.00004	0.00025
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00019	0.00020	0.00021
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00017	-0.00017	-0.00016
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00126	0.00133	0.00162
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00017	-0.00016	-0.00014
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7R	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00175	0.00183	0.00213
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	-0.00021	-0.00020	-0.00019
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00017	0.00017	0.00018
	(D * S0 * S1 * Y) + (!D * S0 * S1 * !Y)	0.00038	0.00045	0.00076
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00017	0.00017	0.00017
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7R	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00015	-0.00013	-0.00012
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00024	0.00025	0.00025
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00049	0.00055	0.00079
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00020	0.00021	0.00021
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00017	-0.00017	-0.00017
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00188	0.00194	0.00217

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7R	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00015	0.00015	0.00015
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	0.00002	0.00002	0.00002
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00001
	(B * D * S0 * Y) + (B * !D * S0 * S1 * !Y) + (B * !D * S0 * !S1 * Y) + (!B * D * S0 * S1 * Y) + (!B * D * S0 * !S1 * !Y) + (!B * !D * S0 * !Y)	-0.00024	-0.00024	-0.00023
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00192	0.00198	0.00224
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	-0.00021	-0.00021	-0.00020
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00017	0.00017	0.00017
	(A * !S0 * !S1 * Y) + (!A * !S0 * !S1 * !Y)	0.00052	0.00059	0.00085

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7R	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00003	0.00009	0.00033
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00020	0.00021	0.00021
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00017	-0.00017	-0.00016
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00144	0.00150	0.00173
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00020	-0.00019	-0.00017
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00001	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00020	0.00021	0.00022

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7R	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00237	0.00244	0.00269
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	-0.00021	-0.00021	-0.00020
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00016	0.00017	0.00017
	(B * S0 * !S1 * Y) + (!B * S0 * !S1 * !Y)	0.00097	0.00104	0.00129
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00020	0.00020	0.00021
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	0.00002	0.00002	0.00002
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00001
	(A * C * !S0 * Y) + (A * !C * !S0 * S1 * !Y) + (A * !C * !S0 * !S1 * Y) + (!A * C * !S0 * S1 * Y) + (!A * C * !S0 * !S1 * !Y) + (!A * !C * !S0 * !Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X6H7R	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	-0.00023	-0.00007	0.00047
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00004	0.00004	0.00004
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00004	-0.00003	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00225	0.00240	0.00295
	(A * B * C * !D * !S1 * Y)	0.00196	0.00211	0.00258
	(A * B * C * !D * !S1 * Y)	-0.00012	-0.00011	-0.00010
	(A * B * C * !D * !S1 * Y)	0.00008	0.00010	0.00010
	(A * B * C * !D * !S1 * Y)	0.00364	0.00380	0.00427
	(A * B * !C * D * !S1 * Y)	-0.00023	0.00006	0.00112
	(A * B * !C * D * !S1 * Y)	0.00020	0.00021	0.00021
	(A * B * !C * D * !S1 * Y)	-0.00016	-0.00015	-0.00012
	(A * B * !C * D * !S1 * Y)	0.00305	0.00333	0.00441
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00013	0.00003	0.00058
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00003	0.00004	0.00005
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00003	-0.00002	-0.00000
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00234	0.00250	0.00307
	(A * !B * C * D * S1 * Y)	0.00120	0.00136	0.00187
	(A * !B * C * D * S1 * Y)	-0.00014	-0.00013	-0.00012
	(A * !B * C * D * S1 * Y)	0.00005	0.00009	0.00011
	(A * !B * C * D * S1 * Y)	0.00289	0.00307	0.00357
	(A * !B * !C * !D * S1 * !Y)	0.00110	0.00126	0.00178
	(A * !B * !C * !D * S1 * !Y)	-0.00014	-0.00011	-0.00008
	(A * !B * !C * !D * S1 * !Y)	0.00009	0.00010	0.00011
	(A * !B * !C * !D * S1 * !Y)	0.00280	0.00296	0.00348
	(!A * B * C * D * S1 * Y)	-0.00037	-0.00007	0.00104
	(!A * B * C * D * S1 * Y)	0.00020	0.00020	0.00020
	(!A * B * C * D * S1 * Y)	-0.00016	-0.00015	-0.00012
	(!A * B * C * D * S1 * Y)	0.00286	0.00316	0.00428
	(!A * B * !C * !D * S1 * !Y)	-0.00007	0.00023	0.00135
	(!A * B * !C * !D * S1 * !Y)	0.00017	0.00020	0.00021
	(!A * B * !C * !D * S1 * !Y)	-0.00016	-0.00016	-0.00014
	(!A * B * !C * !D * S1 * !Y)	0.00314	0.00346	0.00460
	(!A * !B * C * !D * !S1 * !Y)	0.00167	0.00183	0.00230
	(!A * !B * C * !D * !S1 * !Y)	-0.00012	-0.00012	-0.00010
	(!A * !B * C * !D * !S1 * !Y)	0.00009	0.00011	0.00013
	(!A * !B * C * !D * !S1 * !Y)	0.00333	0.00349	0.00397
	(!A * !B * !C * D * !S1 * !Y)	-0.00006	0.00022	0.00129
	(!A * !B * !C * D * !S1 * !Y)	0.00017	0.00020	0.00021
	(!A * !B * !C * D * !S1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A * !B * !C * D * !S1 * !Y)	0.00318	0.00349	0.00456

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

MUX4X6H7R	**(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)**	0.00207	0.00224	0.00286
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00004	-0.00003	-0.00001
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	0.00003	0.00003	0.00004
	(A * B * C * D * Y) + (A * B * !C * !D * !S1 * Y) + (!A * !B * C * D * S1 * Y)	-0.00041	-0.00023	0.00038
	(A * B * C * !D * !S1 * Y)	0.00283	0.00300	0.00357
	(A * B * C * !D * !S1 * Y)	0.00010	0.00011	0.00012
	(A * B * C * !D * !S1 * Y)	-0.00010	-0.00010	-0.00008
	(A * B * C * !D * !S1 * Y)	0.00114	0.00132	0.00189
	(A * B * !C * D * !S1 * Y)	0.00329	0.00361	0.00476
	(A * B * !C * D * !S1 * Y)	-0.00021	-0.00020	-0.00020
	(A * B * !C * D * !S1 * Y)	0.00016	0.00017	0.00019
	(A * B * !C * D * !S1 * Y)	0.00001	0.00033	0.00147
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00197	0.00214	0.00275
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00005	-0.00004	-0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	0.00000	0.00003	0.00003
	(A * B * !C * !D * S1 * !Y) + (!A * !B * C * D * !S1 * !Y) + (!A * !B * !C * !D * !Y)	-0.00051	-0.00034	0.00026
	(A * !B * C * D * S1 * Y)	0.00246	0.00263	0.00323
	(A * !B * C * D * S1 * Y)	0.00012	0.00014	0.00018
	(A * !B * C * D * S1 * Y)	-0.00010	-0.00009	-0.00005
	(A * !B * C * D * S1 * Y)	0.00075	0.00094	0.00153
	(A * !B * !C * !D * S1 * !Y)	0.00256	0.00273	0.00332
	(A * !B * !C * !D * S1 * !Y)	0.00008	0.00012	0.00015
	(A * !B * !C * !D * S1 * !Y)	-0.00010	-0.00010	-0.00009
	(A * !B * !C * !D * S1 * !Y)	0.00085	0.00102	0.00162
	(!A * B * C * D * S1 * Y)	0.00309	0.00343	0.00464
	(!A * B * C * D * S1 * Y)	-0.00020	-0.00020	-0.00019
	(!A * B * C * D * S1 * Y)	0.00013	0.00015	0.00016
	(!A * B * C * D * S1 * Y)	-0.00012	0.00021	0.00140
	(!A * B * !C * !D * S1 * !Y)	0.00279	0.00313	0.00432
	(!A * B * !C * !D * S1 * !Y)	-0.00021	-0.00020	-0.00017
	(!A * B * !C * !D * S1 * !Y)	0.00016	0.00016	0.00016
	(!A * B * !C * !D * S1 * !Y)	-0.00043	-0.00011	0.00108
	(!A * !B * C * !D * !S1 * !Y)	0.00314	0.00330	0.00387
	(!A * !B * C * !D * !S1 * !Y)	0.00010	0.00012	0.00013
	(!A * !B * C * !D * !S1 * !Y)	-0.00011	-0.00010	-0.00009
	(!A * !B * C * !D * !S1 * !Y)	0.00147	0.00164	0.00220
	(!A * !B * !C * D * !S1 * !Y)	0.00313	0.00347	0.00460
	(!A * !B * !C * D * !S1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A * !B * !C * D * !S1 * !Y)	0.00015	0.00016	0.00017
	(!A * !B * !C * D * !S1 * !Y)	-0.00011	0.00021	0.00133

Passive power(pJ) for S1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7R	(B * D * S0 * Y)	-0.00011	0.00002	0.00050
	(B * D * S0 * Y)	0.00003	0.00003	0.00003
	(B * D * S0 * Y)	-0.00002	-0.00002	-0.00000
	(B * D * S0 * Y)	0.00103	0.00117	0.00165
	(A * C * !S0 * Y)	-0.00011	0.00002	0.00050
	(A * C * !S0 * Y)	0.00003	0.00003	0.00004
	(A * C * !S0 * Y)	-0.00003	-0.00002	-0.00001
	(A * C * !S0 * Y)	0.00103	0.00117	0.00165
	(!B * !D * S0 * !Y)	-0.00000	0.00014	0.00062
	(!B * !D * S0 * !Y)	0.00001	0.00002	0.00003
	(!B * !D * S0 * !Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * S0 * !Y)	0.00114	0.00128	0.00176
	(!A * !C * !S0 * !Y)	-0.00000	0.00014	0.00062
	(!A * !C * !S0 * !Y)	0.00001	0.00002	0.00003
	(!A * !C * !S0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !C * !S0 * !Y)	0.00114	0.00128	0.00176

Passive power(pJ) for S1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUX4X6H7R	(B * D * S0 * Y)	0.00100	0.00115	0.00168
	(B * D * S0 * Y)	-0.00003	-0.00003	-0.00003
	(B * D * S0 * Y)	0.00001	0.00002	0.00004
	(B * D * S0 * Y)	-0.00015	0.00000	0.00053
	(A * C * !S0 * Y)	0.00100	0.00115	0.00168
	(A * C * !S0 * Y)	-0.00003	-0.00003	-0.00003
	(A * C * !S0 * Y)	0.00001	0.00002	0.00004
	(A * C * !S0 * Y)	-0.00015	0.00000	0.00053
	(!B * !D * S0 * !Y)	0.00089	0.00104	0.00156
	(!B * !D * S0 * !Y)	-0.00003	-0.00002	-0.00001
	(!B * !D * S0 * !Y)	0.00002	0.00002	0.00003
	(!B * !D * S0 * !Y)	-0.00025	-0.00010	0.00042
	(!A * !C * !S0 * !Y)	0.00089	0.00104	0.00156
	(!A * !C * !S0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A * !C * !S0 * !Y)	0.00001	0.00002	0.00002
	(!A * !C * !S0 * !Y)	-0.00024	-0.00010	0.00042

MUXI2X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X0P5H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X0P5H7R	0.00069	0.00073	0.00182	0.02074

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X0P5H7R	0.00000	0.36884	0.50762

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X0P5H7R	A->Y (FR)	-	0.03131	0.15289	0.53086
	B->Y (FR)	-	0.03113	0.15190	0.52992
	S0->Y (RR)	(A * !B)	0.02902	0.13151	0.42266
	S0->Y (FR)	(!A * B)	0.02808	0.14276	0.45569

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X0P5H7R	A->Y (RF)	-	0.02572	0.12171	0.44121
	B->Y (RF)	-	0.02395	0.11954	0.43954
	S0->Y (FF)	(A * !B)	0.03103	0.12076	0.35520
	S0->Y (RF)	(!A * B)	0.01997	0.10771	0.37516

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X0P5H7R	A	-	0.00095	0.00102	0.00140
	A	-	-0.00010	-0.00010	-0.00009
	A	-	0.00008	0.00008	0.00008
	A	-	0.00001	0.00008	0.00045
	B	-	0.00106	0.00113	0.00151
	B	-	-0.00010	-0.00010	-0.00009
	B	-	0.00008	0.00008	0.00008
	B	-	0.00011	0.00019	0.00056
	S0	(A * !B)	0.00029	0.00059	0.00135
	S0	(A * !B)	-0.00003	-0.00003	-0.00003
	S0	(A * !B)	0.00002	0.00003	0.00003
	S0	(A * !B)	0.00107	0.00137	0.00213
	S0	(!A * B)	0.00138	0.00157	0.00232
	S0	(!A * B)	-0.00007	-0.00007	-0.00007
	S0	(!A * B)	0.00006	0.00006	0.00006
	S0	(!A * B)	-0.00003	0.00016	0.00090

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X0P5H7R	A	-	0.00012	0.00018	0.00052
	A	-	0.00009	0.00010	0.00010
	A	-	-0.00008	-0.00008	-0.00008
	A	-	0.00105	0.00112	0.00147
	B	-	-0.00007	-0.00001	0.00033
	B	-	0.00009	0.00010	0.00010
	B	-	-0.00008	-0.00008	-0.00008
	B	-	0.00087	0.00094	0.00128
	S0	(A * !B)	0.00115	0.00141	0.00218
	S0	(A * !B)	0.00003	0.00003	0.00003
	S0	(A * !B)	-0.00003	-0.00003	-0.00002
	S0	(A * !B)	0.00037	0.00063	0.00140
	S0	(!A * B)	-0.00016	0.00000	0.00068
	S0	(!A * B)	0.00007	0.00007	0.00008
	S0	(!A * B)	-0.00006	-0.00006	-0.00005
	S0	(!A * B)	0.00125	0.00141	0.00210

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7R	(B * S0 * !Y) + (!B * S0 * Y)	-0.00007	0.00005	0.00050
	(B * S0 * !Y) + (!B * S0 * Y)	0.00004	0.00005	0.00004
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00004	-0.00003	-0.00003
	(B * S0 * !Y) + (!B * S0 * Y)	0.00056	0.00069	0.00113

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7R	(B * S0 * !Y) + (!B * S0 * Y)	0.00055	0.00069	0.00117
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00004	-0.00004	-0.00004
	(B * S0 * !Y) + (!B * S0 * Y)	0.00003	0.00003	0.00004
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00008	0.00006	0.00053

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7R	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00004	0.00008	0.00050
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00004	0.00005	0.00005
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00004	-0.00003	-0.00003
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00059	0.00071	0.00113

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7R	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00064	0.00077	0.00122
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00004	-0.00004	-0.00004
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00003	0.00003	0.00004
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00000	0.00014	0.00059

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7R	(A * B * !Y)	-0.00009	0.00001	0.00039
	(A * B * !Y)	0.00002	0.00002	0.00002
	(A * B * !Y)	-0.00002	-0.00001	-0.00001
	(A * B * !Y)	0.00100	0.00111	0.00149
	(!A * !B * Y)	-0.00023	-0.00012	0.00027
	(!A * !B * Y)	0.00001	0.00002	0.00002
	(!A * !B * Y)	-0.00002	-0.00002	-0.00002
	(!A * !B * Y)	0.00087	0.00098	0.00137

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P5H7R	(A * B * !Y)	0.00089	0.00101	0.00144
	(A * B * !Y)	-0.00002	-0.00002	-0.00002
	(A * B * !Y)	0.00001	0.00002	0.00002
	(A * B * !Y)	-0.00021	-0.00009	0.00033
	(!A * !B * Y)	0.00100	0.00113	0.00155
	(!A * !B * Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * Y)	0.00002	0.00002	0.00002
	(!A * !B * Y)	-0.00009	0.00003	0.00045

MUXI2X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X0P7H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X0P7H7R	0.00073	0.00075	0.00187	0.02350

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X0P7H7R	0.00000	0.40585	0.55677

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X0P7H7R	A->Y (FR)	-	0.02907	0.15081	0.53131
	B->Y (FR)	-	0.02915	0.15004	0.53055
	S0->Y (RR)	(A * !B)	0.02844	0.13154	0.42510
	S0->Y (FR)	(!A * B)	0.02616	0.14161	0.45729

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X0P7H7R	A->Y (RF)	-	0.02409	0.11967	0.43981
	B->Y (RF)	-	0.02229	0.11748	0.43821
	S0->Y (FF)	(A * !B)	0.03073	0.12074	0.35602
	S0->Y (RF)	(!A * B)	0.01855	0.10635	0.37588

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X0P7H7R	A	-	0.00100	0.00108	0.00151
	A	-	-0.00011	-0.00011	-0.00010
	A	-	0.00009	0.00009	0.00009
	A	-	-0.00000	0.00008	0.00049
	B	-	0.00113	0.00121	0.00164
	B	-	-0.00011	-0.00011	-0.00011
	B	-	0.00009	0.00009	0.00009
	B	-	0.00012	0.00020	0.00062
	S0	(A * !B)	0.00034	0.00066	0.00146
	S0	(A * !B)	-0.00004	-0.00004	-0.00003
	S0	(A * !B)	0.00003	0.00003	0.00004
	S0	(A * !B)	0.00111	0.00143	0.00223
	S0	(!A * B)	0.00143	0.00162	0.00241
	S0	(!A * B)	-0.00008	-0.00008	-0.00007
	S0	(!A * B)	0.00006	0.00007	0.00007
	S0	(!A * B)	-0.00004	0.00017	0.00095

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X0P7H7R	A	-	0.00013	0.00020	0.00058
	A	-	0.00011	0.00011	0.00011
	A	-	-0.00009	-0.00009	-0.00008
	A	-	0.00113	0.00121	0.00160
	B	-	-0.00008	-0.00001	0.00038
	B	-	0.00011	0.00011	0.00011
	B	-	-0.00009	-0.00009	-0.00009
	B	-	0.00092	0.00100	0.00139
	S0	(A * !B)	0.00118	0.00146	0.00227
	S0	(A * !B)	0.00004	0.00004	0.00004
	S0	(A * !B)	-0.00004	-0.00003	-0.00003
	S0	(A * !B)	0.00041	0.00070	0.00150
	S0	(!A * B)	-0.00016	0.00001	0.00073
	S0	(!A * B)	0.00008	0.00008	0.00008
	S0	(!A * B)	-0.00007	-0.00007	-0.00006
	S0	(!A * B)	0.00128	0.00146	0.00219

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7R	(B * S0 * !Y) + (!B * S0 * Y)	-0.00008	0.00006	0.00056
	(B * S0 * !Y) + (!B * S0 * Y)	0.00005	0.00005	0.00005
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00004	-0.00004	-0.00004
	(B * S0 * !Y) + (!B * S0 * Y)	0.00059	0.00073	0.00123

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7R	(B * S0 * !Y) + (!B * S0 * Y)	0.00058	0.00074	0.00128
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00005	-0.00005	-0.00005
	(B * S0 * !Y) + (!B * S0 * Y)	0.00004	0.00004	0.00004
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00009	0.00007	0.00060

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7R	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00004	0.00009	0.00057
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00005	0.00005	0.00005
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00004	-0.00004	-0.00004
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00062	0.00076	0.00123

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7R	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00066	0.00081	0.00132
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00005	-0.00005	-0.00005
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00004	0.00004	0.00004
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00000	0.00014	0.00065

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7R	(A * B * !Y)	-0.00009	0.00001	0.00038
	(A * B * !Y)	0.00002	0.00002	0.00002
	(A * B * !Y)	-0.00002	-0.00002	-0.00001
	(A * B * !Y)	0.00102	0.00113	0.00150
	(!A * !B * Y)	-0.00021	-0.00010	0.00028
	(!A * !B * Y)	0.00002	0.00002	0.00003
	(!A * !B * Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * Y)	0.00090	0.00101	0.00139

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X0P7H7R	(A * B * !Y)	0.00092	0.00104	0.00146
	(A * B * !Y)	-0.00002	-0.00002	-0.00002
	(A * B * !Y)	0.00001	0.00002	0.00002
	(A * B * !Y)	-0.00020	-0.00008	0.00034
	(!A * !B * Y)	0.00102	0.00114	0.00156
	(!A * !B * Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * Y)	0.00002	0.00002	0.00002
	(!A * !B * Y)	-0.00009	0.00003	0.00045

MUXI2X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X1H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X1H7R	0.00077	0.00081	0.00195	0.02799

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X1H7R	0.00000	0.45867	0.62691

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X1H7R	A->Y (FR)	-	0.02612	0.14818	0.53222
	B->Y (FR)	-	0.02675	0.14807	0.53204
	S0->Y (RR)	(A * !B)	0.02745	0.13136	0.42744
	S0->Y (FR)	(!A * B)	0.02350	0.14010	0.46026

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X1H7R	A->Y (RF)	-	0.02227	0.11851	0.44308
	B->Y (RF)	-	0.02069	0.11674	0.44166
	S0->Y (FF)	(A * !B)	0.03015	0.12156	0.36116
	S0->Y (RF)	(!A * B)	0.01704	0.10589	0.38017

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X1H7R	A	-	0.00108	0.00118	0.00168
	A	-	-0.00014	-0.00013	-0.00013
	A	-	0.00011	0.00011	0.00011
	A	-	-0.00001	0.00008	0.00058
	B	-	0.00125	0.00134	0.00184
	B	-	-0.00014	-0.00013	-0.00013
	B	-	0.00011	0.00011	0.00011
	B	-	0.00013	0.00023	0.00073
	S0	(A * !B)	0.00039	0.00074	0.00161
	S0	(A * !B)	-0.00005	-0.00005	-0.00005
	S0	(A * !B)	0.00004	0.00004	0.00005
	S0	(A * !B)	0.00117	0.00152	0.00239
	S0	(!A * B)	0.00147	0.00168	0.00254
	S0	(!A * B)	-0.00009	-0.00009	-0.00008
	S0	(!A * B)	0.00007	0.00007	0.00008
	S0	(!A * B)	-0.00006	0.00015	0.00101

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X1H7R	A	-	0.00014	0.00022	0.00068
	A	-	0.00013	0.00014	0.00014
	A	-	-0.00011	-0.00011	-0.00011
	A	-	0.00122	0.00131	0.00178
	B	-	-0.00009	-0.00001	0.00045
	B	-	0.00013	0.00014	0.00014
	B	-	-0.00011	-0.00011	-0.00011
	B	-	0.00101	0.00110	0.00157
	S0	(A * !B)	0.00123	0.00154	0.00241
	S0	(A * !B)	0.00005	0.00005	0.00005
	S0	(A * !B)	-0.00004	-0.00004	-0.00004
	S0	(A * !B)	0.00044	0.00076	0.00163
	S0	(!A * B)	-0.00017	0.00002	0.00081
	S0	(!A * B)	0.00009	0.00009	0.00009
	S0	(!A * B)	-0.00008	-0.00007	-0.00006
	S0	(!A * B)	0.00135	0.00154	0.00234

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7R	(B * S0 * !Y) + (!B * S0 * Y)	-0.00009	0.00007	0.00065
	(B * S0 * !Y) + (!B * S0 * Y)	0.00006	0.00006	0.00006
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00005	-0.00005	-0.00005
	(B * S0 * !Y) + (!B * S0 * Y)	0.00063	0.00080	0.00138

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7R	(B * S0 * !Y) + (!B * S0 * Y)	0.00064	0.00082	0.00144
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00006	-0.00006	-0.00006
	(B * S0 * !Y) + (!B * S0 * Y)	0.00005	0.00005	0.00005
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00009	0.00010	0.00071

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7R	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00005	0.00011	0.00066
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00006	0.00006	0.00006
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00005	-0.00005	-0.00005
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00069	0.00085	0.00140

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7R	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00072	0.00089	0.00148
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00006	-0.00006	-0.00006
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00005	0.00005	0.00005
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00002	0.00015	0.00074

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7R	(A * B * !Y)	-0.00009	0.00001	0.00038
	(A * B * !Y)	0.00002	0.00002	0.00002
	(A * B * !Y)	-0.00003	-0.00002	-0.00001
	(A * B * !Y)	0.00106	0.00117	0.00154
	(!A * !B * Y)	-0.00021	-0.00011	0.00027
	(!A * !B * Y)	0.00000	0.00002	0.00002
	(!A * !B * Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * Y)	0.00094	0.00104	0.00143

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1H7R	(A * B * !Y)	0.00094	0.00106	0.00148
	(A * B * !Y)	-0.00002	-0.00002	-0.00002
	(A * B * !Y)	0.00001	0.00002	0.00003
	(A * B * !Y)	-0.00021	-0.00009	0.00032
	(!A * !B * Y)	0.00105	0.00117	0.00159
	(!A * !B * Y)	-0.00002	-0.00002	-0.00000
	(!A * !B * Y)	0.00001	0.00002	0.00002
	(!A * !B * Y)	-0.00010	0.00002	0.00043

MUXI2X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X1P4H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X1P4H7R	0.00084	0.00087	0.00201	0.03190

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X1P4H7R	0.00000	0.50909	0.69386

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X1P4H7R	A->Y (FR)	-	0.02443	0.14644	0.53206
	B->Y (FR)	-	0.02534	0.14665	0.53226
	S0->Y (RR)	(A * !B)	0.02699	0.13129	0.42913
	S0->Y (FR)	(!A * B)	0.02201	0.13901	0.46157

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X1P4H7R	A->Y (RF)	-	0.02104	0.11661	0.44104
	B->Y (RF)	-	0.01952	0.11496	0.43978
	S0->Y (FF)	(A * !B)	0.02990	0.12150	0.36147
	S0->Y (RF)	(!A * B)	0.01601	0.10456	0.38022

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X1P4H7R	A	-	0.00117	0.00128	0.00185
	A	-	-0.00016	-0.00016	-0.00015
	A	-	0.00012	0.00013	0.00013
	A	-	-0.00003	0.00008	0.00065
	B	-	0.00136	0.00146	0.00204
	B	-	-0.00016	-0.00016	-0.00015
	B	-	0.00012	0.00013	0.00013
	B	-	0.00014	0.00025	0.00082
	S0	(A * !B)	0.00044	0.00084	0.00177
	S0	(A * !B)	-0.00006	-0.00006	-0.00006
	S0	(A * !B)	0.00005	0.00005	0.00006
	S0	(A * !B)	0.00122	0.00161	0.00255
	S0	(!A * B)	0.00151	0.00174	0.00267
	S0	(!A * B)	-0.00011	-0.00010	-0.00010
	S0	(!A * B)	0.00008	0.00008	0.00009
	S0	(!A * B)	-0.00008	0.00014	0.00106

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X1P4H7R	A	-	0.00014	0.00024	0.00076
	A	-	0.00015	0.00016	0.00016
	A	-	-0.00013	-0.00013	-0.00012
	A	-	0.00133	0.00144	0.00197
	B	-	-0.00010	-0.00001	0.00052
	B	-	0.00015	0.00016	0.00016
	B	-	-0.00013	-0.00013	-0.00012
	B	-	0.00110	0.00121	0.00174
	S0	(A * !B)	0.00127	0.00161	0.00255
	S0	(A * !B)	0.00006	0.00006	0.00007
	S0	(A * !B)	-0.00005	-0.00005	-0.00005
	S0	(A * !B)	0.00049	0.00083	0.00177
	S0	(!A * B)	-0.00017	0.00003	0.00089
	S0	(!A * B)	0.00010	0.00010	0.00011
	S0	(!A * B)	-0.00009	-0.00008	-0.00007
	S0	(!A * B)	0.00142	0.00162	0.00249

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7R	(B * S0 * !Y) + (!B * S0 * Y)	-0.00011	0.00008	0.00074
	(B * S0 * !Y) + (!B * S0 * Y)	0.00007	0.00007	0.00007
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00006	-0.00006	-0.00006
	(B * S0 * !Y) + (!B * S0 * Y)	0.00069	0.00088	0.00154

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7R	(B * S0 * !Y) + (!B * S0 * Y)	0.00070	0.00091	0.00160
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00007	-0.00007	-0.00007
	(B * S0 * !Y) + (!B * S0 * Y)	0.00006	0.00006	0.00006
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00010	0.00011	0.00080

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7R	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00005	0.00012	0.00075
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00007	0.00007	0.00007
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00006	-0.00006	-0.00005
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00075	0.00093	0.00156

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7R	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00078	0.00097	0.00164
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00007	-0.00007	-0.00007
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00005	0.00006	0.00006
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00003	0.00016	0.00083

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7R	(A * B * !Y)	-0.00009	0.00001	0.00037
	(A * B * !Y)	0.00002	0.00002	0.00002
	(A * B * !Y)	-0.00002	-0.00001	0.00000
	(A * B * !Y)	0.00110	0.00120	0.00157
	(!A * !B * Y)	-0.00022	-0.00011	0.00026
	(!A * !B * Y)	0.00001	0.00002	0.00004
	(!A * !B * Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * Y)	0.00097	0.00108	0.00146

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X1P4H7R	(A * B * !Y)	0.00097	0.00109	0.00150
	(A * B * !Y)	-0.00002	-0.00002	-0.00002
	(A * B * !Y)	0.00000	0.00001	0.00002
	(A * B * !Y)	-0.00022	-0.00011	0.00031
	(!A * !B * Y)	0.00108	0.00120	0.00161
	(!A * !B * Y)	-0.00004	-0.00002	-0.00001
	(!A * !B * Y)	0.00001	0.00002	0.00002
	(!A * !B * Y)	-0.00011	0.00001	0.00042

MUXI2X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X2H7R	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X2H7R	0.00140	0.00135	0.00241	0.04502

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X2H7R	0.00000	0.64554	0.87507

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X2H7R	A->Y (FR)	-	0.02775	0.15715	0.55907
	B->Y (FR)	-	0.03054	0.15946	0.56141
	S0->Y (RR)	(A * !B)	0.03435	0.14826	0.47120
	S0->Y (FR)	(!A * B)	0.02256	0.14748	0.48989

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X2H7R	A->Y (RF)	-	0.02455	0.12629	0.46535
	B->Y (RF)	-	0.02230	0.12477	0.46487
	S0->Y (FF)	(A * !B)	0.03768	0.13720	0.39833
	S0->Y (RF)	(!A * B)	0.01671	0.11159	0.40600

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X2H7R	A	-	0.00189	0.00204	0.00282
	A	-	-0.00019	-0.00019	-0.00019
	A	-	0.00016	0.00016	0.00016
	A	-	0.00007	0.00022	0.00098
	B	-	0.00238	0.00252	0.00330
	B	-	-0.00019	-0.00019	-0.00019
	B	-	0.00016	0.00016	0.00016
	B	-	0.00057	0.00073	0.00149
	S0	(A * !B)	0.00115	0.00168	0.00282
	S0	(A * !B)	-0.00008	-0.00008	-0.00008
	S0	(A * !B)	0.00007	0.00007	0.00008
	S0	(A * !B)	0.00196	0.00249	0.00363
	S0	(!A * B)	0.00188	0.00214	0.00326
	S0	(!A * B)	-0.00012	-0.00012	-0.00011
	S0	(!A * B)	0.00009	0.00010	0.00011
	S0	(!A * B)	-0.00006	0.00021	0.00131

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X2H7R	A	-	0.00033	0.00046	0.00115
	A	-	0.00019	0.00019	0.00020
	A	-	-0.00016	-0.00016	-0.00016
	A	-	0.00215	0.00229	0.00299
	B	-	-0.00014	-0.00001	0.00068
	B	-	0.00019	0.00019	0.00019
	B	-	-0.00016	-0.00016	-0.00015
	B	-	0.00165	0.00178	0.00249
	S0	(A * !B)	0.00165	0.00211	0.00321
	S0	(A * !B)	0.00008	0.00008	0.00009
	S0	(A * !B)	-0.00007	-0.00007	-0.00007
	S0	(A * !B)	0.00084	0.00130	0.00241
	S0	(!A * B)	-0.00008	0.00015	0.00117
	S0	(!A * B)	0.00012	0.00012	0.00013
	S0	(!A * B)	-0.00011	-0.00010	-0.00008
	S0	(!A * B)	0.00185	0.00208	0.00312

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7R	(B * S0 * !Y) + (!B * S0 * Y)	-0.00017	0.00007	0.00090
	(B * S0 * !Y) + (!B * S0 * Y)	0.00009	0.00009	0.00009
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00007	-0.00007	-0.00007
	(B * S0 * !Y) + (!B * S0 * Y)	0.00110	0.00134	0.00218

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7R	(B * S0 * !Y) + (!B * S0 * Y)	0.00135	0.00161	0.00252
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00009	-0.00009	-0.00009
	(B * S0 * !Y) + (!B * S0 * Y)	0.00007	0.00007	0.00007
	(B * S0 * !Y) + (!B * S0 * Y)	0.00007	0.00033	0.00124

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7R	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00001	0.00024	0.00110
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00009	0.00009	0.00009
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00007	-0.00007	-0.00007
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00123	0.00147	0.00234

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7R	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00109	0.00136	0.00229
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00009	-0.00009	-0.00009
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00007	0.00007	0.00007
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00015	0.00012	0.00105

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7R	(A * B * !Y)	-0.00010	-0.00001	0.00032
	(A * B * !Y)	0.00002	0.00002	0.00002
	(A * B * !Y)	-0.00002	-0.00001	0.00000
	(A * B * !Y)	0.00128	0.00137	0.00171
	(!A * !B * Y)	-0.00010	-0.00001	0.00034
	(!A * !B * Y)	0.00002	0.00002	0.00003
	(!A * !B * Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * Y)	0.00127	0.00136	0.00171

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X2H7R	(A * B * !Y)	0.00121	0.00132	0.00170
	(A * B * !Y)	-0.00002	-0.00002	-0.00002
	(A * B * !Y)	0.00002	0.00002	0.00002
	(A * B * !Y)	-0.00017	-0.00006	0.00032
	(!A * !B * Y)	0.00119	0.00130	0.00168
	(!A * !B * Y)	-0.00002	-0.00002	-0.00001
	(!A * !B * Y)	0.00002	0.00002	0.00002
	(!A * !B * Y)	-0.00018	-0.00007	0.00031

MUXI2X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X3H7R	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X3H7R	0.00166	0.00162	0.00263	0.06033

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X3H7R	0.00000	0.87889	1.18030

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X3H7R	A->Y (FR)	-	0.02311	0.14944	0.54640
	B->Y (FR)	-	0.02555	0.15146	0.54844
	S0->Y (RR)	(A * !B)	0.02929	0.14081	0.46331
	S0->Y (FR)	(!A * B)	0.01914	0.14170	0.47900

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X3H7R	A->Y (RF)	-	0.02079	0.11907	0.45187
	B->Y (RF)	-	0.01880	0.11775	0.45151
	S0->Y (FF)	(A * !B)	0.03257	0.12929	0.38142
	S0->Y (RF)	(!A * B)	0.01409	0.10619	0.39922

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X3H7R	A	-	0.00225	0.00244	0.00353
	A	-	-0.00026	-0.00026	-0.00025
	A	-	0.00022	0.00022	0.00023
	A	-	0.00004	0.00025	0.00132
	B	-	0.00275	0.00294	0.00404
	B	-	-0.00026	-0.00026	-0.00025
	B	-	0.00022	0.00022	0.00023
	B	-	0.00056	0.00077	0.00184
	S0	(A * !B)	0.00129	0.00195	0.00343
	S0	(A * !B)	-0.00011	-0.00011	-0.00010
	S0	(A * !B)	0.00009	0.00010	0.00010
	S0	(A * !B)	0.00211	0.00277	0.00425
	S0	(!A * B)	0.00206	0.00241	0.00387
	S0	(!A * B)	-0.00017	-0.00016	-0.00014
	S0	(!A * B)	0.00014	0.00014	0.00015
	S0	(!A * B)	-0.00010	0.00024	0.00169

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X3H7R	A	-	0.00033	0.00052	0.00150
	A	-	0.00026	0.00026	0.00027
	A	-	-0.00023	-0.00022	-0.00022
	A	-	0.00250	0.00270	0.00371
	B	-	-0.00020	-0.00001	0.00099
	B	-	0.00025	0.00026	0.00027
	B	-	-0.00023	-0.00022	-0.00022
	B	-	0.00195	0.00217	0.00318
	S0	(A * !B)	0.00180	0.00235	0.00375
	S0	(A * !B)	0.00010	0.00011	0.00011
	S0	(A * !B)	-0.00010	-0.00010	-0.00009
	S0	(A * !B)	0.00098	0.00152	0.00293
	S0	(!A * B)	-0.00009	0.00020	0.00157
	S0	(!A * B)	0.00016	0.00016	0.00017
	S0	(!A * B)	-0.00015	-0.00014	-0.00013
	S0	(!A * B)	0.00207	0.00237	0.00375

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7R	(B * S0 * !Y) + (!B * S0 * Y)	-0.00022	0.00011	0.00126
	(B * S0 * !Y) + (!B * S0 * Y)	0.00012	0.00013	0.00013
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00010	-0.00010	-0.00010
	(B * S0 * !Y) + (!B * S0 * Y)	0.00131	0.00164	0.00280

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7R	(B * S0 * !Y) + (!B * S0 * Y)	0.00161	0.00197	0.00321
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00013	-0.00013	-0.00012
	(B * S0 * !Y) + (!B * S0 * Y)	0.00010	0.00010	0.00010
	(B * S0 * !Y) + (!B * S0 * Y)	0.00008	0.00044	0.00167

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7R	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00005	0.00029	0.00148
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00012	0.00012	0.00013
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00010	-0.00010	-0.00009
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00145	0.00180	0.00299

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7R	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00129	0.00166	0.00293
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00013	-0.00012	-0.00012
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00009	0.00010	0.00010
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00021	0.00015	0.00142

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7R	(A * B * !Y)	-0.00012	-0.00000	0.00043
	(A * B * !Y)	0.00002	0.00003	0.00003
	(A * B * !Y)	-0.00002	-0.00002	-0.00000
	(A * B * !Y)	0.00139	0.00151	0.00194
	(!A * !B * Y)	-0.00012	0.00001	0.00044
	(!A * !B * Y)	0.00002	0.00003	0.00004
	(!A * !B * Y)	-0.00002	-0.00002	-0.00002
	(!A * !B * Y)	0.00137	0.00150	0.00195

Passive power(pJ) for S0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X3H7R	(A * B * !Y)	0.00133	0.00147	0.00195
	(A * B * !Y)	-0.00003	-0.00003	-0.00002
	(A * B * !Y)	0.00000	0.00002	0.00003
	(A * B * !Y)	-0.00018	-0.00004	0.00044
	(!A * !B * Y)	0.00130	0.00144	0.00192
	(!A * !B * Y)	-0.00003	-0.00003	-0.00001
	(!A * !B * Y)	0.00002	0.00002	0.00002
	(!A * !B * Y)	-0.00019	-0.00005	0.00042

MUXI2X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The MUXI2 cell is a 2-to-1 multiplexer with inverted output. The state of the select input (S0) determines which data input (A, B) is presented to the output (Y). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	S0	Y
0	0	x	1
0	1	0	1
x	1	1	0
1	x	0	0
1	0	1	1

Footprint

Cell Name	Area
MUXI2X4H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	S0	Y
MUXI2X4H7R	0.00221	0.00226	0.00299	0.07025

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
MUXI2X4H7R	0.00000	1.15534	1.51493

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X4H7R	A->Y (FR)	-	0.02140	0.14028	0.51783
	B->Y (FR)	-	0.02358	0.13856	0.50547
	S0->Y (RR)	(A * !B)	0.02760	0.13039	0.42881
	S0->Y (FR)	(!A * B)	0.01721	0.13214	0.44922

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
MUXI2X4H7R	A->Y (RF)	-	0.01910	0.10782	0.41505
	B->Y (RF)	-	0.01738	0.10756	0.41668
	S0->Y (FF)	(A * !B)	0.03094	0.12066	0.35054
	S0->Y (RF)	(!A * B)	0.01253	0.09675	0.37378

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X4H7R	A	-	0.00270	0.00297	0.00445
	A	-	-0.00033	-0.00033	-0.00032
	A	-	0.00029	0.00030	0.00030
	A	-	-0.00010	0.00018	0.00163
	B	-	0.00341	0.00369	0.00526
	B	-	-0.00033	-0.00033	-0.00032
	B	-	0.00029	0.00029	0.00030
	B	-	0.00053	0.00083	0.00238
	S0	(A * !B)	0.00150	0.00233	0.00417
	S0	(A * !B)	-0.00014	-0.00014	-0.00012
	S0	(A * !B)	0.00013	0.00013	0.00014
	S0	(A * !B)	0.00237	0.00320	0.00503
	S0	(!A * B)	0.00234	0.00275	0.00457
	S0	(!A * B)	-0.00020	-0.00020	-0.00018
	S0	(!A * B)	0.00018	0.00019	0.00019
	S0	(!A * B)	-0.00017	0.00025	0.00206

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
MUXI2X4H7R	A	-	0.00040	0.00066	0.00199
	A	-	0.00033	0.00033	0.00034
	A	-	-0.00030	-0.00030	-0.00026
	A	-	0.00320	0.00346	0.00481
	B	-	-0.00028	-0.00000	0.00142
	B	-	0.00033	0.00033	0.00033
	B	-	-0.00029	-0.00029	-0.00029
	B	-	0.00259	0.00286	0.00431
	S0	(A * !B)	0.00213	0.00279	0.00450
	S0	(A * !B)	0.00012	0.00014	0.00014
	S0	(A * !B)	-0.00013	-0.00013	-0.00012
	S0	(A * !B)	0.00126	0.00192	0.00363
	S0	(!A * B)	-0.00014	0.00022	0.00193
	S0	(!A * B)	0.00020	0.00020	0.00022
	S0	(!A * B)	-0.00019	-0.00019	-0.00017
	S0	(!A * B)	0.00237	0.00271	0.00444

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7R	(B * S0 * !Y) + (!B * S0 * Y)	-0.00030	0.00015	0.00169
	(B * S0 * !Y) + (!B * S0 * Y)	0.00016	0.00016	0.00016
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00014	-0.00014	-0.00013
	(B * S0 * !Y) + (!B * S0 * Y)	0.00171	0.00216	0.00371

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7R	(B * S0 * !Y) + (!B * S0 * Y)	0.00195	0.00243	0.00409
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00016	-0.00016	-0.00016
	(B * S0 * !Y) + (!B * S0 * Y)	0.00013	0.00014	0.00014
	(B * S0 * !Y) + (!B * S0 * Y)	-0.00006	0.00042	0.00208

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7R	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00011	0.00037	0.00202
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00016	0.00016	0.00016
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00014	-0.00013	-0.00012
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00194	0.00242	0.00408

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7R	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00172	0.00224	0.00401
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00016	-0.00016	-0.00016
	(A * !S0 * !Y) + (!A * !S0 * Y)	0.00012	0.00013	0.00014
	(A * !S0 * !Y) + (!A * !S0 * Y)	-0.00032	0.00019	0.00195

Passive power(pJ) for S0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7R	(A * B * !Y)	-0.00013	0.00000	0.00051
	(A * B * !Y)	0.00003	0.00003	0.00003
	(A * B * !Y)	-0.00003	-0.00002	-0.00001
	(A * B * !Y)	0.00156	0.00170	0.00221
	(!A * !B * Y)	-0.00010	0.00004	0.00057
	(!A * !B * Y)	0.00002	0.00003	0.00004
	(!A * !B * Y)	-0.00003	-0.00003	-0.00003
	(!A * !B * Y)	0.00158	0.00172	0.00225

Passive power(pJ) for S0 falling (conditional):

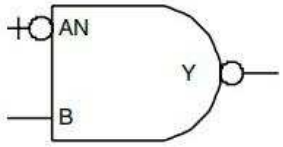
Cell Name	When	Power(pJ)		
		min	avg	max
MUXI2X4H7R	(A * B * !Y)	0.00156	0.00172	0.00228
	(A * B * !Y)	-0.00003	-0.00003	-0.00003
	(A * B * !Y)	0.00001	0.00002	0.00003
	(A * B * !Y)	-0.00013	0.00003	0.00058
	(!A * !B * Y)	0.00148	0.00164	0.00220
	(!A * !B * Y)	-0.00003	-0.00003	-0.00002
	(!A * !B * Y)	0.00003	0.00003	0.00003
	(!A * !B * Y)	-0.00020	-0.00004	0.00052

NAND2BX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX0P5H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX0P5H7R	0.00081	0.00075	0.03392

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX0P5H7R	0.00000	0.17379	0.28336

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX0P5H7R	AN->Y (RR)	0.03115	0.14131	0.40901
	B->Y (FR)	0.01729	0.15322	0.60109

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX0P5H7R	AN->Y (FF)	0.03922	0.18240	0.54192
	B->Y (RF)	0.02059	0.17359	0.66043

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX0P5H7R	AN	0.00053	0.00065	0.00105
	AN	-0.00002	-0.00002	-0.00002
	AN	0.00002	0.00004	0.00004
	AN	0.00088	0.00100	0.00139
	B	0.00049	0.00059	0.00101
	B	-0.00005	-0.00004	-0.00004
	B	0.00001	0.00002	0.00002
	B	-0.00006	0.00002	0.00042

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX0P5H7R	AN	0.00083	0.00096	0.00140
	AN	0.00002	0.00002	0.00003
	AN	-0.00004	-0.00004	-0.00002
	AN	0.00049	0.00062	0.00106
	B	-0.00006	0.00000	0.00036
	B	0.00004	0.00005	0.00005
	B	-0.00002	-0.00002	-0.00001
	B	0.00050	0.00057	0.00094

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P5H7R	(!B * Y)	0.00004	0.00015	0.00054
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00070	0.00081	0.00120

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P5H7R	(!B * Y)	0.00069	0.00081	0.00124
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00003	0.00016	0.00059

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P5H7R	(AN * Y)	-0.00021	-0.00021	-0.00020
	(AN * Y)	-0.00000	-0.00000	-0.00000
	(AN * Y)	0.00002	0.00002	0.00002
	(AN * Y)	0.00010	0.00011	0.00011

Passive power(pJ) for B falling (conditional):

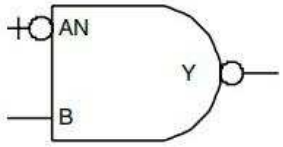
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P5H7R	(AN * Y)	0.00020	0.00021	0.00021
	(AN * Y)	0.00000	0.00000	0.00000
	(AN * Y)	-0.00002	-0.00002	-0.00002
	(AN * Y)	-0.00011	-0.00011	-0.00010

NAND2BX0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX0P7H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX0P7H7R	0.00082	0.00077	0.03868

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX0P7H7R	0.00000	0.18429	0.30157

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX0P7H7R	AN->Y (RR)	0.03041	0.14175	0.41239
	B->Y (FR)	0.01583	0.15218	0.60197

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX0P7H7R	AN->Y (FF)	0.03831	0.18254	0.54443
	B->Y (RF)	0.01871	0.17184	0.66077

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX0P7H7R	AN	0.00055	0.00069	0.00111
	AN	-0.00003	-0.00003	-0.00001
	AN	0.00004	0.00005	0.00005
	AN	0.00090	0.00102	0.00142
	B	0.00051	0.00061	0.00109
	B	-0.00005	-0.00005	-0.00005
	B	0.00001	0.00002	0.00002
	B	-0.00007	0.00002	0.00048

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX0P7H7R	AN	0.00086	0.00099	0.00142
	AN	0.00003	0.00003	0.00003
	AN	-0.00005	-0.00005	-0.00004
	AN	0.00053	0.00066	0.00110
	B	-0.00006	0.00000	0.00042
	B	0.00005	0.00005	0.00005
	B	-0.00002	-0.00002	-0.00001
	B	0.00053	0.00060	0.00103

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P7H7R	(!B * Y)	0.00006	0.00016	0.00055
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00073	0.00083	0.00122

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P7H7R	(!B * Y)	0.00070	0.00082	0.00125
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00004	0.00016	0.00058

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P7H7R	(AN * Y)	-0.00022	-0.00021	-0.00021
	(AN * Y)	-0.00000	-0.00000	-0.00000
	(AN * Y)	0.00002	0.00002	0.00002
	(AN * Y)	0.00011	0.00011	0.00011

Passive power(pJ) for B falling (conditional):

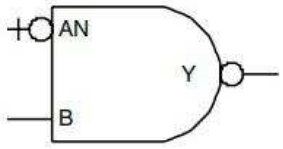
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX0P7H7R	(AN * Y)	0.00021	0.00022	0.00022
	(AN * Y)	0.00000	0.00000	0.00000
	(AN * Y)	-0.00002	-0.00002	-0.00002
	(AN * Y)	-0.00011	-0.00011	-0.00011

NAND2BX12H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX12H7R	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX12H7R	0.00190	0.00580	0.38340

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX12H7R	0.00000	1.19431	1.98857

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX12H7R	AN->Y (RR)	0.03077	0.15399	0.44770
	B->Y (FR)	0.01041	0.14932	0.61635

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX12H7R	AN->Y (FF)	0.04005	0.20004	0.59475
	B->Y (RF)	0.01192	0.16941	0.67468

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX12H7R	AN	0.00592	0.00640	0.00796
	AN	-0.00045	-0.00045	-0.00044
	AN	0.00035	0.00054	0.00054
	AN	0.00453	0.00503	0.00655
	B	0.00353	0.00473	0.00978
	B	-0.00053	-0.00052	-0.00049
	B	0.00003	0.00018	0.00026
	B	-0.00083	0.00001	0.00490

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX12H7R	AN	0.00447	0.00499	0.00627
	AN	0.00044	0.00045	0.00045
	AN	-0.00054	-0.00054	-0.00035
	AN	0.00595	0.00648	0.00779
	B	-0.00021	0.00049	0.00506
	B	0.00052	0.00053	0.00054
	B	-0.00020	-0.00018	-0.00003
	B	0.00387	0.00521	0.00992

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX12H7R	(!B * Y)	0.00124	0.00152	0.00258
	(!B * Y)	0.00012	0.00012	0.00012
	(!B * Y)	-0.00014	-0.00013	-0.00013
	(!B * Y)	0.00294	0.00322	0.00428

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX12H7R	(!B * Y)	0.00282	0.00315	0.00436
	(!B * Y)	-0.00012	-0.00012	-0.00011
	(!B * Y)	0.00013	0.00013	0.00014
	(!B * Y)	0.00118	0.00152	0.00272

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX12H7R	(AN * Y)	-0.00185	-0.00184	-0.00183
	(AN * Y)	-0.00004	-0.00003	-0.00003
	(AN * Y)	0.00018	0.00019	0.00020
	(AN * Y)	0.00050	0.00051	0.00051

Passive power(pJ) for B falling (conditional):

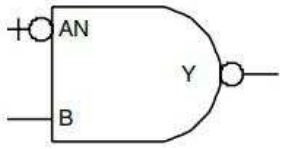
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX12H7R	(AN * Y)	0.00183	0.00185	0.00186
	(AN * Y)	0.00003	0.00004	0.00004
	(AN * Y)	-0.00019	-0.00018	-0.00018
	(AN * Y)	-0.00051	-0.00050	-0.00049

NAND2BX16H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX16H7R	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX16H7R	0.00733	0.00778	0.48839

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX16H7R	0.00000	2.46989	3.95209

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX16H7R	AN->Y (RR)	0.02128	0.12821	0.39092
	B->Y (FR)	0.01031	0.14454	0.60016

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX16H7R	AN->Y (FF)	0.02679	0.16939	0.52879
	B->Y (RF)	0.01181	0.16370	0.65841

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX16H7R	AN	0.00715	0.00897	0.01503
	AN	-0.00038	-0.00038	-0.00037
	AN	0.00055	0.00055	0.00056
	AN	0.00904	0.01089	0.01670
	B	0.00506	0.00630	0.01304
	B	-0.00071	-0.00070	-0.00066
	B	0.00016	0.00024	0.00030
	B	-0.00119	-0.00002	0.00653

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX16H7R	AN	0.00869	0.01066	0.01683
	AN	0.00037	0.00038	0.00039
	AN	-0.00056	-0.00055	-0.00055
	AN	0.00690	0.00888	0.01520
	B	-0.00031	0.00063	0.00676
	B	0.00068	0.00070	0.00071
	B	-0.00026	-0.00024	-0.00016
	B	0.00601	0.00698	0.01327

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX16H7R	(!B * Y)	0.00092	0.00253	0.00819
	(!B * Y)	0.00036	0.00037	0.00037
	(!B * Y)	-0.00035	-0.00034	-0.00034
	(!B * Y)	0.00699	0.00860	0.01427

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX16H7R	(!B * Y)	0.00650	0.00826	0.01439
	(!B * Y)	-0.00037	-0.00037	-0.00036
	(!B * Y)	0.00034	0.00034	0.00035
	(!B * Y)	0.00051	0.00227	0.00839

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX16H7R	(AN * Y)	-0.00248	-0.00247	-0.00246
	(AN * Y)	-0.00005	-0.00005	-0.00004
	(AN * Y)	0.00023	0.00025	0.00028
	(AN * Y)	0.00066	0.00067	0.00069

Passive power(pJ) for B falling (conditional):

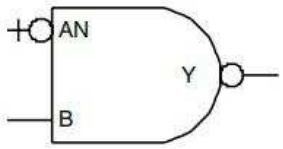
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX16H7R	(AN * Y)	0.00247	0.00248	0.00249
	(AN * Y)	0.00004	0.00005	0.00005
	(AN * Y)	-0.00025	-0.00024	-0.00021
	(AN * Y)	-0.00067	-0.00066	-0.00066

NAND2BX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX1H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX1H7R	0.00081	0.00087	0.04524

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX1H7R	0.00000	0.19954	0.32653

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX1H7R	AN->Y (RR)	0.02983	0.14058	0.40873
	B->Y (FR)	0.01460	0.14902	0.59748

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX1H7R	AN->Y (FF)	0.03800	0.18325	0.54684
	B->Y (RF)	0.01736	0.17023	0.65954

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX1H7R	AN	0.00066	0.00077	0.00119
	AN	-0.00004	-0.00004	-0.00004
	AN	0.00006	0.00006	0.00007
	AN	0.00094	0.00105	0.00145
	B	0.00057	0.00069	0.00125
	B	-0.00006	-0.00006	-0.00006
	B	0.00002	0.00002	0.00003
	B	-0.00008	0.00001	0.00056

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX1H7R	AN	0.00090	0.00103	0.00145
	AN	0.00004	0.00004	0.00004
	AN	-0.00006	-0.00006	-0.00006
	AN	0.00062	0.00076	0.00118
	B	-0.00008	0.00000	0.00049
	B	0.00006	0.00006	0.00006
	B	-0.00002	-0.00002	-0.00002
	B	0.00058	0.00068	0.00119

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1H7R	(!B * Y)	0.00008	0.00018	0.00056
	(!B * Y)	0.00002	0.00003	0.00003
	(!B * Y)	-0.00003	-0.00002	-0.00002
	(!B * Y)	0.00075	0.00085	0.00123

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1H7R	(!B * Y)	0.00073	0.00085	0.00126
	(!B * Y)	-0.00003	-0.00003	-0.00002
	(!B * Y)	0.00002	0.00002	0.00003
	(!B * Y)	0.00006	0.00018	0.00060

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1H7R	(AN * Y)	-0.00025	-0.00024	-0.00024
	(AN * Y)	-0.00000	-0.00000	-0.00000
	(AN * Y)	0.00003	0.00003	0.00003
	(AN * Y)	0.00012	0.00012	0.00012

Passive power(pJ) for B falling (conditional):

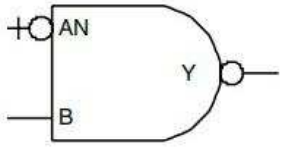
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1H7R	(AN * Y)	0.00024	0.00025	0.00025
	(AN * Y)	0.00000	0.00000	0.00000
	(AN * Y)	-0.00003	-0.00003	-0.00003
	(AN * Y)	-0.00012	-0.00012	-0.00012

NAND2BX1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX1P4H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX1P4H7R	0.00084	0.00092	0.05203

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX1P4H7R	0.00000	0.21411	0.35129

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX1P4H7R	AN->Y (RR)	0.02934	0.14133	0.41178
	B->Y (FR)	0.01358	0.14865	0.60017

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX1P4H7R	AN->Y (FF)	0.03736	0.18368	0.55030
	B->Y (RF)	0.01599	0.16896	0.65963

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX1P4H7R	AN	0.00071	0.00083	0.00123
	AN	-0.00005	-0.00005	-0.00005
	AN	0.00007	0.00007	0.00010
	AN	0.00096	0.00109	0.00149
	B	0.00061	0.00073	0.00138
	B	-0.00007	-0.00007	-0.00007
	B	0.00002	0.00003	0.00003
	B	-0.00011	0.00000	0.00063

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX1P4H7R	AN	0.00092	0.00105	0.00147
	AN	0.00005	0.00005	0.00006
	AN	-0.00007	-0.00007	-0.00007
	AN	0.00067	0.00080	0.00125
	B	-0.00008	0.00001	0.00058
	B	0.00007	0.00007	0.00007
	B	-0.00003	-0.00003	-0.00002
	B	0.00062	0.00074	0.00133

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1P4H7R	(!B * Y)	0.00009	0.00020	0.00057
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00079	0.00089	0.00126

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1P4H7R	(!B * Y)	0.00074	0.00085	0.00127
	(!B * Y)	-0.00003	-0.00003	-0.00002
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00005	0.00017	0.00058

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1P4H7R	(AN * Y)	-0.00027	-0.00027	-0.00027
	(AN * Y)	-0.00001	-0.00001	-0.00000
	(AN * Y)	0.00003	0.00003	0.00003
	(AN * Y)	0.00011	0.00011	0.00011

Passive power(pJ) for B falling (conditional):

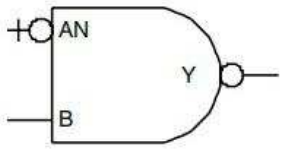
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX1P4H7R	(AN * Y)	0.00027	0.00027	0.00027
	(AN * Y)	0.00000	0.00001	0.00001
	(AN * Y)	-0.00003	-0.00003	-0.00003
	(AN * Y)	-0.00011	-0.00011	-0.00011

NAND2BX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX2H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX2H7R	0.00082	0.00138	0.06777

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX2H7R	0.00000	0.25544	0.42656

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX2H7R	AN->Y (RR)	0.03594	0.15504	0.43875
	B->Y (FR)	0.01385	0.14919	0.59949

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX2H7R	AN->Y (FF)	0.04574	0.19769	0.57378
	B->Y (RF)	0.01613	0.16902	0.65979

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX2H7R	AN	0.00115	0.00129	0.00166
	AN	-0.00007	-0.00007	-0.00003
	AN	0.00009	0.00009	0.00009
	AN	0.00133	0.00146	0.00183
	B	0.00089	0.00109	0.00201
	B	-0.00009	-0.00009	-0.00009
	B	0.00000	0.00003	0.00004
	B	-0.00015	0.00002	0.00091

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX2H7R	AN	0.00132	0.00147	0.00185
	AN	0.00007	0.00007	0.00007
	AN	-0.00009	-0.00009	-0.00009
	AN	0.00116	0.00130	0.00170
	B	-0.00009	0.00004	0.00085
	B	0.00009	0.00009	0.00009
	B	-0.00003	-0.00003	-0.00000
	B	0.00100	0.00112	0.00195

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX2H7R	(!B * Y)	0.00024	0.00033	0.00065
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	0.00099	0.00108	0.00140

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX2H7R	(!B * Y)	0.00095	0.00105	0.00141
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	0.00020	0.00031	0.00067

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX2H7R	(AN * Y)	-0.00037	-0.00037	-0.00036
	(AN * Y)	-0.00001	-0.00001	-0.00001
	(AN * Y)	0.00004	0.00004	0.00004
	(AN * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for B falling (conditional):

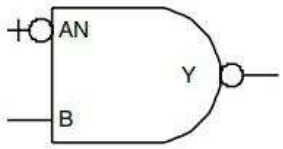
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX2H7R	(AN * Y)	0.00036	0.00037	0.00037
	(AN * Y)	0.00001	0.00001	0.00001
	(AN * Y)	-0.00004	-0.00004	-0.00004
	(AN * Y)	-0.00024	-0.00024	-0.00024

NAND2BX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX3H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX3H7R	0.00084	0.00158	0.09598

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX3H7R	0.00000	0.31857	0.53409

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX3H7R	AN->Y (RR)	0.03583	0.15696	0.44474
	B->Y (FR)	0.01198	0.14722	0.60202

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX3H7R	AN->Y (FF)	0.04591	0.20022	0.58125
	B->Y (RF)	0.01377	0.16624	0.65822

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX3H7R	AN	0.00149	0.00161	0.00203
	AN	-0.00011	-0.00011	-0.00011
	AN	0.00009	0.00014	0.00019
	AN	0.00149	0.00163	0.00204
	B	0.00107	0.00131	0.00260
	B	-0.00013	-0.00013	-0.00012
	B	0.00004	0.00005	0.00009
	B	-0.00018	0.00004	0.00129

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX3H7R	AN	0.00142	0.00158	0.00196
	AN	0.00011	0.00011	0.00012
	AN	-0.00014	-0.00014	-0.00009
	AN	0.00143	0.00159	0.00197
	B	-0.00009	0.00008	0.00123
	B	0.00013	0.00013	0.00013
	B	-0.00005	-0.00005	-0.00004
	B	0.00111	0.00136	0.00254

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX3H7R	(!B * Y)	0.00033	0.00041	0.00071
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	-0.00004	-0.00003	-0.00003
	(!B * Y)	0.00110	0.00118	0.00149

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX3H7R	(!B * Y)	0.00099	0.00108	0.00143
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	0.00003	0.00003	0.00004
	(!B * Y)	0.00023	0.00032	0.00068

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX3H7R	(AN * Y)	-0.00046	-0.00046	-0.00045
	(AN * Y)	-0.00001	-0.00001	-0.00001
	(AN * Y)	0.00005	0.00005	0.00005
	(AN * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for B falling (conditional):

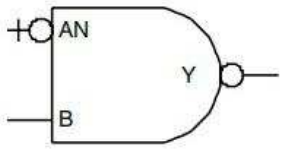
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX3H7R	(AN * Y)	0.00046	0.00046	0.00046
	(AN * Y)	0.00001	0.00001	0.00001
	(AN * Y)	-0.00005	-0.00005	-0.00005
	(AN * Y)	-0.00022	-0.00022	-0.00022

NAND2BX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX4H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX4H7R	0.00102	0.00275	0.13544

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX4H7R	0.00000	0.46671	0.78222

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX4H7R	AN->Y (RR)	0.03673	0.15899	0.44951
	B->Y (FR)	0.01277	0.14787	0.59995

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX4H7R	AN->Y (FF)	0.04735	0.20358	0.58741
	B->Y (RF)	0.01472	0.16748	0.65995

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX4H7R	AN	0.00244	0.00263	0.00322
	AN	-0.00015	-0.00015	-0.00015
	AN	0.00019	0.00019	0.00026
	AN	0.00230	0.00252	0.00310
	B	0.00188	0.00224	0.00416
	B	-0.00018	-0.00018	-0.00017
	B	0.00004	0.00006	0.00011
	B	-0.00025	0.00010	0.00196

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX4H7R	AN	0.00228	0.00251	0.00302
	AN	0.00015	0.00015	0.00016
	AN	-0.00020	-0.00019	-0.00019
	AN	0.00242	0.00265	0.00316
	B	-0.00018	0.00010	0.00178
	B	0.00017	0.00018	0.00018
	B	-0.00007	-0.00006	-0.00004
	B	0.00193	0.00225	0.00398

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX4H7R	(!B * Y)	0.00054	0.00065	0.00107
	(!B * Y)	0.00005	0.00005	0.00005
	(!B * Y)	-0.00005	-0.00005	-0.00005
	(!B * Y)	0.00159	0.00170	0.00212

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX4H7R	(!B * Y)	0.00155	0.00168	0.00215
	(!B * Y)	-0.00005	-0.00005	-0.00004
	(!B * Y)	0.00005	0.00005	0.00005
	(!B * Y)	0.00052	0.00064	0.00112

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX4H7R	(AN * Y)	-0.00075	-0.00075	-0.00074
	(AN * Y)	-0.00001	-0.00001	-0.00001
	(AN * Y)	0.00008	0.00008	0.00008
	(AN * Y)	0.00045	0.00045	0.00046

Passive power(pJ) for B falling (conditional):

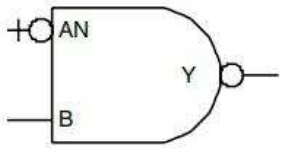
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX4H7R	(AN * Y)	0.00074	0.00075	0.00076
	(AN * Y)	0.00001	0.00001	0.00001
	(AN * Y)	-0.00008	-0.00008	-0.00007
	(AN * Y)	-0.00046	-0.00045	-0.00045

NAND2BX6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX6H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX6H7R	0.00112	0.00294	0.18416

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX6H7R	0.00000	0.59716	0.99428

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX6H7R	AN->Y (RR)	0.03208	0.15173	0.43630
	B->Y (FR)	0.01090	0.14592	0.60295

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX6H7R	AN->Y (FF)	0.04171	0.19649	0.57826
	B->Y (RF)	0.01253	0.16469	0.65809

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX6H7R	AN	0.00290	0.00313	0.00387
	AN	-0.00022	-0.00022	-0.00022
	AN	0.00026	0.00027	0.00033
	AN	0.00234	0.00258	0.00331
	B	0.00193	0.00240	0.00488
	B	-0.00027	-0.00026	-0.00024
	B	0.00006	0.00009	0.00011
	B	-0.00041	0.00002	0.00242

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX6H7R	AN	0.00230	0.00256	0.00318
	AN	0.00022	0.00022	0.00023
	AN	-0.00028	-0.00027	-0.00026
	AN	0.00290	0.00316	0.00385
	B	-0.00015	0.00020	0.00243
	B	0.00026	0.00026	0.00027
	B	-0.00010	-0.00009	-0.00006
	B	0.00220	0.00258	0.00488

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX6H7R	(!B * Y)	0.00058	0.00072	0.00124
	(!B * Y)	0.00006	0.00006	0.00006
	(!B * Y)	-0.00007	-0.00006	-0.00006
	(!B * Y)	0.00157	0.00171	0.00223

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX6H7R	(!B * Y)	0.00154	0.00170	0.00228
	(!B * Y)	-0.00006	-0.00006	-0.00006
	(!B * Y)	0.00006	0.00006	0.00007
	(!B * Y)	0.00057	0.00073	0.00132

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX6H7R	(AN * Y)	-0.00093	-0.00092	-0.00091
	(AN * Y)	-0.00002	-0.00002	-0.00002
	(AN * Y)	0.00010	0.00010	0.00010
	(AN * Y)	0.00026	0.00027	0.00027

Passive power(pJ) for B falling (conditional):

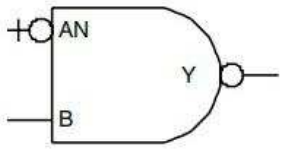
Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX6H7R	(AN * Y)	0.00092	0.00093	0.00093
	(AN * Y)	0.00002	0.00002	0.00002
	(AN * Y)	-0.00010	-0.00010	-0.00009
	(AN * Y)	-0.00027	-0.00026	-0.00026

NAND2BX8H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2B cell provides the logical NAND of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
x	0	1
0	1	0
1	1	1

Footprint

Cell Name	Area
NAND2BX8H7R	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NAND2BX8H7R	0.00169	0.00389	0.24560

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2BX8H7R	0.00000	0.85709	1.41944

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX8H7R	AN->Y (RR)	0.02848	0.14501	0.42350
	B->Y (FR)	0.01066	0.14564	0.60322

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2BX8H7R	AN->Y (FF)	0.03711	0.18885	0.56439
	B->Y (RF)	0.01219	0.16424	0.65797

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX8H7R	AN	0.00391	0.00429	0.00552
	AN	-0.00029	-0.00028	-0.00028
	AN	0.00035	0.00035	0.00035
	AN	0.00328	0.00368	0.00490
	B	0.00257	0.00317	0.00650
	B	-0.00035	-0.00035	-0.00033
	B	0.00008	0.00013	0.00017
	B	-0.00055	0.00001	0.00324

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2BX8H7R	AN	0.00324	0.00366	0.00481
	AN	0.00028	0.00029	0.00029
	AN	-0.00035	-0.00035	-0.00035
	AN	0.00392	0.00434	0.00566
	B	-0.00017	0.00030	0.00331
	B	0.00035	0.00035	0.00035
	B	-0.00013	-0.00012	-0.00008
	B	0.00287	0.00346	0.00656

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX8H7R	(!B * Y)	0.00075	0.00102	0.00200
	(!B * Y)	0.00009	0.00009	0.00009
	(!B * Y)	-0.00010	-0.00010	-0.00009
	(!B * Y)	0.00221	0.00247	0.00346

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX8H7R	(!B * Y)	0.00218	0.00248	0.00359
	(!B * Y)	-0.00009	-0.00009	-0.00009
	(!B * Y)	0.00009	0.00010	0.00010
	(!B * Y)	0.00077	0.00107	0.00218

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX8H7R	(AN * Y)	-0.00124	-0.00123	-0.00121
	(AN * Y)	-0.00002	-0.00002	-0.00002
	(AN * Y)	0.00012	0.00013	0.00014
	(AN * Y)	0.00033	0.00034	0.00035

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2BX8H7R	(AN * Y)	0.00122	0.00123	0.00124
	(AN * Y)	0.00002	0.00002	0.00003
	(AN * Y)	-0.00012	-0.00012	-0.00011
	(AN * Y)	-0.00034	-0.00034	-0.00033

NAND2X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X0P5H7R	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X0P5H7R	0.00073	0.00071	0.03389

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X0P5H7R	0.00000	0.08164	0.14319

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X0P5H7R	A->Y (FR)	0.01746	0.15339	0.59997
	B->Y (FR)	0.01875	0.15570	0.60150

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X0P5H7R	A->Y (RF)	0.02085	0.17380	0.66012
	B->Y (RF)	0.02208	0.17511	0.65287

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X0P5H7R	A	0.00053	0.00062	0.00104
	A	-0.00005	-0.00005	-0.00004
	A	0.00000	0.00002	0.00002
	A	-0.00008	-0.00001	0.00039
	B	0.00060	0.00070	0.00107
	B	-0.00004	-0.00005	-0.00004
	B	0.00005	0.00005	0.00005
	B	-0.00012	-0.00006	0.00030

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X0P5H7R	A	-0.00008	-0.00002	0.00033
	A	0.00004	0.00005	0.00005
	A	-0.00002	-0.00002	0.00000
	A	0.00055	0.00061	0.00098
	B	-0.00008	-0.00004	0.00021
	B	0.00004	0.00005	0.00005
	B	-0.00005	-0.00005	-0.00005
	B	0.00068	0.00073	0.00099

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P5H7R	(!B * Y)	-0.00020	-0.00020	-0.00020
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P5H7R	(!B * Y)	0.00020	0.00020	0.00020
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P5H7R	(!A * Y)	-0.00015	-0.00015	-0.00015
	(!A * Y)	-0.00000	-0.00000	-0.00000
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	0.00021	0.00021	0.00022

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P5H7R	(!A * Y)	0.00015	0.00016	0.00016
	(!A * Y)	0.00000	0.00000	0.00000
	(!A * Y)	-0.00001	-0.00001	-0.00001
	(!A * Y)	-0.00021	-0.00021	-0.00020

NAND2X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X0P7H7R	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X0P7H7R	0.00072	0.00078	0.03866

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X0P7H7R	0.00000	0.09214	0.16140

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X0P7H7R	A->Y (FR)	0.01724	0.15470	0.60438
	B->Y (FR)	0.01607	0.15242	0.60308

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X0P7H7R	A->Y (RF)	0.02015	0.17356	0.65365
	B->Y (RF)	0.01903	0.17203	0.66031

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X0P7H7R	A	0.00063	0.00073	0.00115
	A	-0.00005	-0.00005	-0.00005
	A	0.00006	0.00006	0.00006
	A	-0.00013	-0.00006	0.00034
	B	0.00056	0.00065	0.00113
	B	-0.00005	-0.00005	-0.00005
	B	0.00002	0.00002	0.00002
	B	-0.00010	-0.00002	0.00044

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X0P7H7R	A	-0.00009	-0.00004	0.00025
	A	0.00005	0.00005	0.00005
	A	-0.00006	-0.00006	-0.00006
	A	0.00070	0.00077	0.00107
	B	-0.00009	-0.00002	0.00038
	B	0.00005	0.00005	0.00005
	B	-0.00002	-0.00002	-0.00002
	B	0.00058	0.00064	0.00107

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P7H7R	(!B * Y)	-0.00016	-0.00016	-0.00016
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P7H7R	(!B * Y)	0.00016	0.00016	0.00017
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P7H7R	(!A * Y)	-0.00022	-0.00022	-0.00022
	(!A * Y)	-0.00000	-0.00000	-0.00000
	(!A * Y)	0.00002	0.00002	0.00002
	(!A * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X0P7H7R	(!A * Y)	0.00022	0.00022	0.00022
	(!A * Y)	0.00000	0.00000	0.00000
	(!A * Y)	-0.00002	-0.00002	-0.00002
	(!A * Y)	-0.00009	-0.00009	-0.00009

NAND2X12H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X12H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X12H7R	0.00551	0.00534	0.36797

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X12H7R	0.00000	0.86526	1.50082

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X12H7R	A->Y (FR)	0.00970	0.14413	0.60235
	B->Y (FR)	0.01158	0.14800	0.60428

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X12H7R	A->Y (RF)	0.01096	0.16258	0.65815
	B->Y (RF)	0.01333	0.16567	0.65176

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X12H7R	A	0.00397	0.00483	0.01003
	A	-0.00053	-0.00052	-0.00051
	A	0.00003	0.00018	0.00025
	A	-0.00108	-0.00020	0.00485
	B	0.00506	0.00608	0.01021
	B	-0.00053	-0.00053	-0.00052
	B	0.00059	0.00060	0.00060
	B	-0.00102	-0.00035	0.00363

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X12H7R	A	-0.00085	-0.00015	0.00460
	A	0.00052	0.00053	0.00053
	A	-0.00019	-0.00018	-0.00003
	A	0.00412	0.00488	0.00977
	B	-0.00083	-0.00037	0.00294
	B	0.00052	0.00053	0.00053
	B	-0.00060	-0.00060	-0.00059
	B	0.00580	0.00628	0.00965

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X12H7R	(!B * Y)	-0.00174	-0.00173	-0.00172
	(!B * Y)	-0.00004	-0.00003	-0.00003
	(!B * Y)	0.00019	0.00019	0.00020
	(!B * Y)	0.00038	0.00039	0.00039

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X12H7R	(!B * Y)	0.00173	0.00174	0.00175
	(!B * Y)	0.00003	0.00004	0.00004
	(!B * Y)	-0.00019	-0.00019	-0.00019
	(!B * Y)	-0.00039	-0.00038	-0.00038

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X12H7R	(!A * Y)	-0.00124	-0.00124	-0.00123
	(!A * Y)	-0.00004	-0.00003	-0.00003
	(!A * Y)	0.00007	0.00007	0.00007
	(!A * Y)	0.00153	0.00154	0.00155

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X12H7R	(!A * Y)	0.00125	0.00130	0.00138
	(!A * Y)	0.00003	0.00003	0.00004
	(!A * Y)	-0.00007	-0.00007	-0.00007
	(!A * Y)	-0.00147	-0.00139	-0.00127

NAND2X16H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X16H7R	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X16H7R	0.00737	0.00717	0.48928

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X16H7R	0.00000	1.15367	2.00109

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X16H7R	A->Y (FR)	0.00959	0.14376	0.60108
	B->Y (FR)	0.01149	0.14766	0.60326

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X16H7R	A->Y (RF)	0.01089	0.16245	0.65819
	B->Y (RF)	0.01323	0.16542	0.64990

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X16H7R	A	0.00515	0.00648	0.01343
	A	-0.00071	-0.00070	-0.00067
	A	0.00018	0.00025	0.00029
	A	-0.00143	-0.00026	0.00649
	B	0.00658	0.00813	0.01367
	B	-0.00070	-0.00070	-0.00069
	B	0.00079	0.00080	0.00081
	B	-0.00138	-0.00048	0.00484

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X16H7R	A	-0.00114	-0.00020	0.00615
	A	0.00070	0.00070	0.00071
	A	-0.00025	-0.00024	-0.00018
	A	0.00551	0.00654	0.01307
	B	-0.00111	-0.00049	0.00394
	B	0.00069	0.00070	0.00071
	B	-0.00081	-0.00080	-0.00079
	B	0.00781	0.00840	0.01294

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X16H7R	(!B * Y)	-0.00233	-0.00232	-0.00231
	(!B * Y)	-0.00005	-0.00005	-0.00004
	(!B * Y)	0.00026	0.00026	0.00026
	(!B * Y)	0.00050	0.00051	0.00051

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X16H7R	(!B * Y)	0.00231	0.00233	0.00234
	(!B * Y)	0.00004	0.00005	0.00005
	(!B * Y)	-0.00025	-0.00025	-0.00025
	(!B * Y)	-0.00051	-0.00050	-0.00050

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X16H7R	(!A * Y)	-0.00167	-0.00167	-0.00166
	(!A * Y)	-0.00005	-0.00005	-0.00004
	(!A * Y)	0.00009	0.00010	0.00010
	(!A * Y)	0.00205	0.00206	0.00206

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X16H7R	(!A * Y)	0.00168	0.00176	0.00187
	(!A * Y)	0.00004	0.00005	0.00005
	(!A * Y)	-0.00010	-0.00010	-0.00009
	(!A * Y)	-0.00196	-0.00186	-0.00170

NAND2X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X1H7R	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X1H7R	0.00078	0.00083	0.04526

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X1H7R	0.00000	0.10740	0.18636

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X1H7R	A->Y (FR)	0.01571	0.15132	0.59994
	B->Y (FR)	0.01451	0.14894	0.59771

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X1H7R	A->Y (RF)	0.01851	0.17196	0.65341
	B->Y (RF)	0.01729	0.17006	0.65903

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X1H7R	A	0.00067	0.00080	0.00129
	A	-0.00006	-0.00006	-0.00006
	A	0.00007	0.00007	0.00007
	A	-0.00015	-0.00007	0.00040
	B	0.00057	0.00071	0.00127
	B	-0.00006	-0.00006	-0.00006
	B	0.00002	0.00002	0.00002
	B	-0.00012	-0.00002	0.00053

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X1H7R	A	-0.00010	-0.00005	0.00030
	A	0.00006	0.00006	0.00006
	A	-0.00007	-0.00007	-0.00007
	A	0.00076	0.00084	0.00120
	B	-0.00011	-0.00003	0.00046
	B	0.00006	0.00006	0.00006
	B	-0.00002	-0.00002	-0.00002
	B	0.00061	0.00070	0.00121

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1H7R	(!B * Y)	-0.00018	-0.00018	-0.00018
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	0.00023	0.00024	0.00024

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1H7R	(!B * Y)	0.00018	0.00018	0.00019
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1H7R	(!A * Y)	-0.00024	-0.00024	-0.00024
	(!A * Y)	-0.00000	-0.00000	-0.00000
	(!A * Y)	0.00002	0.00003	0.00003
	(!A * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1H7R	(!A * Y)	0.00024	0.00024	0.00024
	(!A * Y)	0.00000	0.00000	0.00000
	(!A * Y)	-0.00002	-0.00002	-0.00002
	(!A * Y)	-0.00008	-0.00008	-0.00008

NAND2X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X1P4H7R	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X1P4H7R	0.00085	0.00089	0.05197

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X1P4H7R	0.00000	0.12196	0.21112

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X1P4H7R	A->Y (FR)	0.01485	0.15094	0.60133
	B->Y (FR)	0.01350	0.14836	0.59901

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X1P4H7R	A->Y (RF)	0.01736	0.17089	0.65261
	B->Y (RF)	0.01593	0.16855	0.65847

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X1P4H7R	A	0.00072	0.00088	0.00143
	A	-0.00007	-0.00007	-0.00007
	A	0.00008	0.00008	0.00008
	A	-0.00018	-0.00009	0.00044
	B	0.00061	0.00075	0.00141
	B	-0.00007	-0.00007	-0.00007
	B	0.00002	0.00003	0.00003
	B	-0.00015	-0.00003	0.00060

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X1P4H7R	A	-0.00012	-0.00006	0.00034
	A	0.00007	0.00007	0.00007
	A	-0.00008	-0.00008	-0.00008
	A	0.00084	0.00093	0.00134
	B	-0.00012	-0.00003	0.00054
	B	0.00007	0.00007	0.00007
	B	-0.00003	-0.00003	-0.00002
	B	0.00061	0.00076	0.00136

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1P4H7R	(!B * Y)	-0.00020	-0.00020	-0.00020
	(!B * Y)	-0.00001	-0.00001	-0.00000
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1P4H7R	(!B * Y)	0.00020	0.00021	0.00021
	(!B * Y)	0.00000	0.00001	0.00001
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1P4H7R	(!A * Y)	-0.00026	-0.00026	-0.00026
	(!A * Y)	-0.00001	-0.00001	-0.00000
	(!A * Y)	0.00003	0.00003	0.00003
	(!A * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X1P4H7R	(!A * Y)	0.00026	0.00026	0.00027
	(!A * Y)	0.00000	0.00001	0.00001
	(!A * Y)	-0.00003	-0.00003	-0.00003
	(!A * Y)	-0.00008	-0.00008	-0.00008

NAND2X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X2H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X2H7R	0.00134	0.00139	0.06761

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X2H7R	0.00000	0.16329	0.28639

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X2H7R	A->Y (FR)	0.01658	0.15364	0.60355
	B->Y (FR)	0.01425	0.14939	0.59922

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X2H7R	A->Y (RF)	0.01961	0.17273	0.65283
	B->Y (RF)	0.01665	0.16923	0.65963

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X2H7R	A	0.00126	0.00148	0.00224
	A	-0.00009	-0.00009	-0.00009
	A	0.00010	0.00011	0.00011
	A	-0.00017	-0.00003	0.00070
	B	0.00099	0.00119	0.00210
	B	-0.00009	-0.00009	-0.00008
	B	0.00002	0.00003	0.00003
	B	-0.00018	-0.00002	0.00085

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X2H7R	A	-0.00017	-0.00008	0.00045
	A	0.00009	0.00009	0.00009
	A	-0.00011	-0.00011	-0.00010
	A	0.00133	0.00147	0.00202
	B	-0.00017	-0.00004	0.00076
	B	0.00009	0.00009	0.00009
	B	-0.00003	-0.00003	-0.00002
	B	0.00099	0.00118	0.00200

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X2H7R	(!B * Y)	-0.00028	-0.00028	-0.00028
	(!B * Y)	-0.00001	-0.00001	-0.00000
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	0.00038	0.00039	0.00039

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X2H7R	(!B * Y)	0.00028	0.00029	0.00031
	(!B * Y)	0.00000	0.00001	0.00001
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	-0.00038	-0.00036	-0.00033

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X2H7R	(!A * Y)	-0.00041	-0.00041	-0.00040
	(!A * Y)	-0.00001	-0.00001	-0.00000
	(!A * Y)	0.00003	0.00003	0.00003
	(!A * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X2H7R	(!A * Y)	0.00041	0.00041	0.00041
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	-0.00003	-0.00003	-0.00003
	(!A * Y)	-0.00015	-0.00015	-0.00015

NAND2X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X3H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X3H7R	0.00156	0.00159	0.09578

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X3H7R	0.00000	0.22642	0.39393

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X3H7R	A->Y (FR)	0.01388	0.15067	0.60444
	B->Y (FR)	0.01179	0.14670	0.60129

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X3H7R	A->Y (RF)	0.01626	0.16939	0.65265
	B->Y (RF)	0.01353	0.16578	0.65911

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X3H7R	A	0.00144	0.00174	0.00279
	A	-0.00013	-0.00013	-0.00013
	A	0.00015	0.00015	0.00015
	A	-0.00025	-0.00007	0.00094
	B	0.00116	0.00138	0.00267
	B	-0.00014	-0.00013	-0.00013
	B	0.00004	0.00005	0.00006
	B	-0.00027	-0.00004	0.00121

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X3H7R	A	-0.00022	-0.00010	0.00067
	A	0.00013	0.00013	0.00013
	A	-0.00015	-0.00015	-0.00015
	A	0.00161	0.00176	0.00256
	B	-0.00022	-0.00005	0.00111
	B	0.00013	0.00013	0.00014
	B	-0.00005	-0.00005	-0.00004
	B	0.00121	0.00138	0.00257

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X3H7R	(!B * Y)	-0.00035	-0.00034	-0.00034
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00045	0.00045	0.00046

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X3H7R	(!B * Y)	0.00035	0.00036	0.00038
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00044	-0.00042	-0.00038

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X3H7R	(!A * Y)	-0.00049	-0.00048	-0.00048
	(!A * Y)	-0.00001	-0.00001	-0.00001
	(!A * Y)	0.00005	0.00005	0.00005
	(!A * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X3H7R	(!A * Y)	0.00048	0.00049	0.00049
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	-0.00005	-0.00005	-0.00004
	(!A * Y)	-0.00014	-0.00014	-0.00014

NAND2X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X4H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X4H7R	0.00268	0.00265	0.13464

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X4H7R	0.00000	0.32658	0.57278

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X4H7R	A->Y (FR)	0.01524	0.15181	0.60177
	B->Y (FR)	0.01268	0.14707	0.59820

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X4H7R	A->Y (RF)	0.01805	0.17093	0.65230
	B->Y (RF)	0.01469	0.16712	0.65988

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X4H7R	A	0.00256	0.00298	0.00454
	A	-0.00018	-0.00018	-0.00018
	A	0.00021	0.00021	0.00021
	A	-0.00034	-0.00006	0.00145
	B	0.00199	0.00234	0.00425
	B	-0.00018	-0.00018	-0.00016
	B	0.00004	0.00006	0.00007
	B	-0.00035	-0.00000	0.00184

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X4H7R	A	-0.00033	-0.00015	0.00097
	A	0.00018	0.00018	0.00018
	A	-0.00021	-0.00021	-0.00021
	A	0.00274	0.00297	0.00412
	B	-0.00035	-0.00007	0.00163
	B	0.00017	0.00018	0.00018
	B	-0.00007	-0.00006	-0.00004
	B	0.00197	0.00228	0.00403

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X4H7R	(!B * Y)	-0.00054	-0.00053	-0.00053
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	0.00081	0.00082	0.00083

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X4H7R	(!B * Y)	0.00054	0.00057	0.00062
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	-0.00080	-0.00075	-0.00068

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X4H7R	(!A * Y)	-0.00080	-0.00080	-0.00079
	(!A * Y)	-0.00001	-0.00001	-0.00001
	(!A * Y)	0.00006	0.00006	0.00006
	(!A * Y)	0.00026	0.00026	0.00027

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X4H7R	(!A * Y)	0.00079	0.00080	0.00080
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	-0.00006	-0.00006	-0.00006
	(!A * Y)	-0.00026	-0.00026	-0.00026

NAND2X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X6H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X6H7R	0.00278	0.00266	0.18479

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X6H7R	0.00000	0.43263	0.75041

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X6H7R	A->Y (FR)	0.01025	0.14527	0.60323
	B->Y (FR)	0.01204	0.14883	0.60480

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X6H7R	A->Y (RF)	0.01163	0.16357	0.65870
	B->Y (RF)	0.01385	0.16649	0.65113

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X6H7R	A	0.00201	0.00243	0.00497
	A	-0.00027	-0.00026	-0.00025
	A	0.00008	0.00009	0.00010
	A	-0.00047	-0.00006	0.00241
	B	0.00239	0.00301	0.00507
	B	-0.00026	-0.00026	-0.00026
	B	0.00030	0.00030	0.00030
	B	-0.00048	-0.00016	0.00182

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X6H7R	A	-0.00042	-0.00008	0.00223
	A	0.00026	0.00026	0.00027
	A	-0.00010	-0.00009	-0.00008
	A	0.00203	0.00241	0.00479
	B	-0.00040	-0.00018	0.00143
	B	0.00026	0.00026	0.00027
	B	-0.00030	-0.00030	-0.00030
	B	0.00277	0.00309	0.00474

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X6H7R	(!B * Y)	-0.00087	-0.00086	-0.00086
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00010	0.00010	0.00010
	(!B * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X6H7R	(!B * Y)	0.00086	0.00087	0.00087
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	-0.00010	-0.00010	-0.00009
	(!B * Y)	-0.00018	-0.00018	-0.00018

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X6H7R	(!A * Y)	-0.00061	-0.00061	-0.00060
	(!A * Y)	-0.00002	-0.00002	-0.00001
	(!A * Y)	0.00003	0.00003	0.00004
	(!A * Y)	0.00076	0.00076	0.00077

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X6H7R	(!A * Y)	0.00062	0.00064	0.00068
	(!A * Y)	0.00002	0.00002	0.00002
	(!A * Y)	-0.00004	-0.00003	-0.00003
	(!A * Y)	-0.00073	-0.00069	-0.00063

NAND2X8H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND2 cell provides the logical NAND of two inputs (A, B). The output (Y) is represented by the logic equation:

Truth Table

INPUT		OUTPUT
A	B	Y
0	x	1
1	0	1
1	1	0

Footprint

Cell Name	Area
NAND2X8H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NAND2X8H7R	0.00371	0.00357	0.24611

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND2X8H7R	0.00000	0.57684	1.00055

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X8H7R	A->Y (FR)	0.01005	0.14491	0.60350
	B->Y (FR)	0.01192	0.14875	0.60481

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND2X8H7R	A->Y (RF)	0.01135	0.16306	0.65798
	B->Y (RF)	0.01375	0.16622	0.65121

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X8H7R	A	0.00257	0.00326	0.00668
	A	-0.00035	-0.00035	-0.00034
	A	0.00011	0.00013	0.00016
	A	-0.00068	-0.00009	0.00323
	B	0.00348	0.00410	0.00682
	B	-0.00035	-0.00035	-0.00035
	B	0.00040	0.00040	0.00040
	B	-0.00062	-0.00018	0.00245

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND2X8H7R	A	-0.00057	-0.00011	0.00301
	A	0.00035	0.00035	0.00035
	A	-0.00013	-0.00012	-0.00011
	A	0.00276	0.00324	0.00645
	B	-0.00054	-0.00025	0.00191
	B	0.00035	0.00035	0.00036
	B	-0.00040	-0.00040	-0.00040
	B	0.00386	0.00416	0.00637

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X8H7R	(!B * Y)	-0.00117	-0.00116	-0.00116
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00013	0.00013	0.00013
	(!B * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X8H7R	(!B * Y)	0.00116	0.00117	0.00117
	(!B * Y)	0.00002	0.00002	0.00003
	(!B * Y)	-0.00012	-0.00012	-0.00012
	(!B * Y)	-0.00024	-0.00024	-0.00024

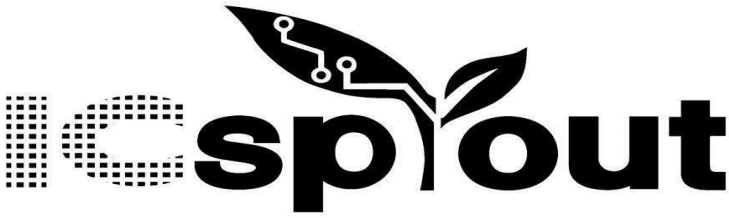
Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X8H7R	(!A * Y)	-0.00083	-0.00083	-0.00082
	(!A * Y)	-0.00003	-0.00002	-0.00002
	(!A * Y)	0.00005	0.00005	0.00005
	(!A * Y)	0.00100	0.00101	0.00101

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND2X8H7R	(!A * Y)	0.00084	0.00087	0.00093
	(!A * Y)	0.00002	0.00002	0.00003
	(!A * Y)	-0.00005	-0.00005	-0.00005
	(!A * Y)	-0.00096	-0.00091	-0.00084

NAND3BBX0P5H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX0P5H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX0P5H7R	0.00083	0.00070	0.00072	0.02466

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX0P5H7R	0.00000	0.24430	0.42656

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX0P5H7R	AN->Y (RR)	0.03519	0.12143	0.32400
	BN->Y (RR)	0.03700	0.12531	0.33142
	C->Y (FR)	0.01924	0.12898	0.50408

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX0P5H7R	AN->Y (FF)	0.05389	0.20067	0.56842
	BN->Y (FF)	0.05644	0.20649	0.58132
	C->Y (RF)	0.03118	0.18754	0.66652

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7R	AN	0.00062	0.00073	0.00113
	AN	-0.00005	-0.00005	-0.00003
	AN	0.00006	0.00007	0.00008
	AN	0.00091	0.00102	0.00141
	BN	0.00077	0.00089	0.00128
	BN	-0.00005	-0.00005	-0.00005
	BN	0.00004	0.00004	0.00004
	BN	0.00106	0.00118	0.00157
	C	0.00055	0.00061	0.00097
	C	-0.00007	-0.00007	-0.00006
	C	0.00001	0.00002	0.00014
	C	-0.00014	0.00002	0.00037

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7R	AN	0.00106	0.00119	0.00162
	AN	0.00005	0.00005	0.00006
	AN	-0.00008	-0.00007	-0.00006
	AN	0.00078	0.00091	0.00135
	BN	0.00102	0.00115	0.00158
	BN	0.00005	0.00005	0.00005
	BN	-0.00004	-0.00004	-0.00004
	BN	0.00074	0.00087	0.00129
	C	0.00009	0.00014	0.00043
	C	0.00007	0.00007	0.00007
	C	-0.00002	-0.00002	-0.00001
	C	0.00066	0.00073	0.00102

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7R	(BN * C * Y) + (!BN * !C * Y)	0.00004	0.00015	0.00054
	(BN * C * Y) + (!BN * !C * Y)	0.00002	0.00002	0.00002
	(BN * C * Y) + (!BN * !C * Y)	-0.00003	-0.00002	-0.00002
	(BN * C * Y) + (!BN * !C * Y)	0.00068	0.00079	0.00118
	(BN * !C * Y)	0.00004	0.00015	0.00054
	(BN * !C * Y)	0.00002	0.00002	0.00002
	(BN * !C * Y)	-0.00003	-0.00002	-0.00002
	(BN * !C * Y)	0.00068	0.00079	0.00118

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7R	(BN * C * Y) + (!BN * !C * Y)	0.00070	0.00082	0.00125
	(BN * C * Y) + (!BN * !C * Y)	-0.00002	-0.00002	-0.00002
	(BN * C * Y) + (!BN * !C * Y)	0.00002	0.00002	0.00003
	(BN * C * Y) + (!BN * !C * Y)	0.00006	0.00018	0.00061
	(BN * !C * Y)	0.00070	0.00082	0.00125
	(BN * !C * Y)	-0.00002	-0.00002	-0.00002
	(BN * !C * Y)	0.00002	0.00002	0.00003
	(BN * !C * Y)	0.00005	0.00018	0.00060

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7R	(AN * Y) + (!AN * !C * Y)	0.00014	0.00025	0.00064
	(AN * Y) + (!AN * !C * Y)	0.00002	0.00002	0.00002
	(AN * Y) + (!AN * !C * Y)	-0.00005	-0.00004	-0.00004
	(AN * Y) + (!AN * !C * Y)	0.00078	0.00089	0.00128

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7R	(AN * Y) + (!AN * !C * Y)	0.00063	0.00075	0.00117
	(AN * Y) + (!AN * !C * Y)	-0.00002	-0.00002	-0.00002
	(AN * Y) + (!AN * !C * Y)	0.00004	0.00005	0.00005
	(AN * Y) + (!AN * !C * Y)	-0.00001	0.00011	0.00054

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7R	(BN * Y)	-0.00019	-0.00019	-0.00019
	(BN * Y)	-0.00000	-0.00000	-0.00000
	(BN * Y)	0.00002	0.00002	0.00002
	(BN * Y)	0.00013	0.00013	0.00013
	(AN * !BN * Y)	-0.00026	-0.00026	-0.00025
	(AN * !BN * Y)	-0.00000	-0.00000	-0.00000
	(AN * !BN * Y)	0.00002	0.00002	0.00002
	(AN * !BN * Y)	0.00006	0.00007	0.00007

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P5H7R	(BN * Y)	0.00019	0.00019	0.00019
	(BN * Y)	0.00000	0.00000	0.00000
	(BN * Y)	-0.00002	-0.00002	-0.00002
	(BN * Y)	-0.00013	-0.00013	-0.00013
	(AN * !BN * Y)	0.00025	0.00026	0.00026
	(AN * !BN * Y)	0.00000	0.00000	0.00001
	(AN * !BN * Y)	-0.00002	-0.00002	-0.00002
	(AN * !BN * Y)	-0.00007	-0.00007	-0.00006

NAND3BBX0P7H7R

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX0P7H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX0P7H7R	0.00084	0.00071	0.00078	0.02781

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX0P7H7R	0.00000	0.25187	0.44529

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX0P7H7R	AN->Y (RR)	0.03417	0.12070	0.32342
	BN->Y (RR)	0.03573	0.12418	0.33045
	C->Y (FR)	0.01798	0.12712	0.50225

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX0P7H7R	AN->Y (FF)	0.05190	0.19850	0.56593
	BN->Y (FF)	0.05388	0.20362	0.57744
	C->Y (RF)	0.02879	0.18403	0.66125

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7R	AN	0.00067	0.00078	0.00118
	AN	-0.00006	-0.00006	-0.00006
	AN	0.00008	0.00009	0.00009
	AN	0.00091	0.00104	0.00143
	BN	0.00082	0.00094	0.00133
	BN	-0.00006	-0.00006	-0.00006
	BN	0.00005	0.00005	0.00005
	BN	0.00108	0.00120	0.00159
	C	0.00059	0.00066	0.00106
	C	-0.00008	-0.00008	-0.00007
	C	0.00000	0.00002	0.00002
	C	-0.00007	0.00001	0.00041

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7R	AN	0.00109	0.00122	0.00165
	AN	0.00006	0.00006	0.00006
	AN	-0.00009	-0.00009	-0.00008
	AN	0.00085	0.00098	0.00142
	BN	0.00104	0.00117	0.00159
	BN	0.00006	0.00006	0.00006
	BN	-0.00005	-0.00005	-0.00005
	BN	0.00078	0.00091	0.00134
	C	0.00008	0.00014	0.00047
	C	0.00008	0.00008	0.00008
	C	-0.00002	-0.00002	0.00000
	C	0.00073	0.00079	0.00113

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7R	(BN * C * Y) + (!BN * !C * Y)	0.00005	0.00015	0.00054
	(BN * C * Y) + (!BN * !C * Y)	0.00002	0.00002	0.00002
	(BN * C * Y) + (!BN * !C * Y)	-0.00002	-0.00002	-0.00002
	(BN * C * Y) + (!BN * !C * Y)	0.00070	0.00081	0.00119
	(BN * !C * Y)	0.00005	0.00015	0.00054
	(BN * !C * Y)	0.00002	0.00002	0.00002
	(BN * !C * Y)	-0.00003	-0.00003	-0.00002
	(BN * !C * Y)	0.00070	0.00081	0.00119

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7R	(BN * C * Y) + (!BN * !C * Y)	0.00071	0.00083	0.00126
	(BN * C * Y) + (!BN * !C * Y)	-0.00002	-0.00002	-0.00002
	(BN * C * Y) + (!BN * !C * Y)	0.00002	0.00002	0.00002
	(BN * C * Y) + (!BN * !C * Y)	0.00007	0.00019	0.00061
	(BN * !C * Y)	0.00071	0.00083	0.00126
	(BN * !C * Y)	-0.00002	-0.00002	-0.00002
	(BN * !C * Y)	0.00002	0.00003	0.00003
	(BN * !C * Y)	0.00006	0.00018	0.00061

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7R	(AN * Y) + (!AN * !C * Y)	0.00015	0.00026	0.00065
	(AN * Y) + (!AN * !C * Y)	0.00002	0.00002	0.00002
	(AN * Y) + (!AN * !C * Y)	-0.00005	-0.00005	-0.00005
	(AN * Y) + (!AN * !C * Y)	0.00080	0.00091	0.00130

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7R	(AN * Y) + (!AN * !C * Y)	0.00064	0.00076	0.00118
	(AN * Y) + (!AN * !C * Y)	-0.00002	-0.00002	-0.00002
	(AN * Y) + (!AN * !C * Y)	0.00005	0.00005	0.00005
	(AN * Y) + (!AN * !C * Y)	-0.00001	0.00011	0.00052

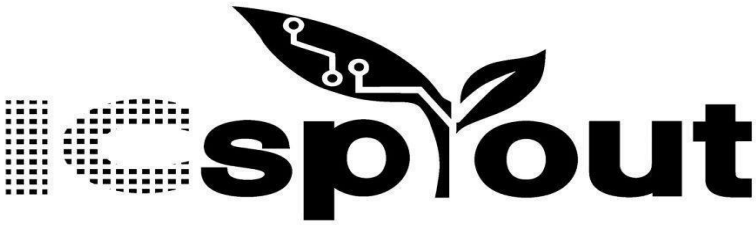
Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7R	(BN * Y)	-0.00021	-0.00021	-0.00021
	(BN * Y)	-0.00000	-0.00000	-0.00000
	(BN * Y)	0.00002	0.00002	0.00002
	(BN * Y)	0.00013	0.00014	0.00014
	(AN * !BN * Y)	-0.00028	-0.00028	-0.00027
	(AN * !BN * Y)	-0.00000	-0.00000	-0.00000
	(AN * !BN * Y)	0.00001	0.00002	0.00002
	(AN * !BN * Y)	0.00007	0.00007	0.00008

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX0P7H7R	(BN * Y)	0.00021	0.00021	0.00021
	(BN * Y)	0.00000	0.00000	0.00000
	(BN * Y)	-0.00002	-0.00002	-0.00002
	(BN * Y)	-0.00014	-0.00014	-0.00013
	(AN * !BN * Y)	0.00027	0.00028	0.00028
	(AN * !BN * Y)	0.00000	0.00000	0.00000
	(AN * !BN * Y)	-0.00002	-0.00002	-0.00001
	(AN * !BN * Y)	-0.00007	-0.00007	-0.00007

NAND3BBX1H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX1H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX1H7R	0.00080	0.00080	0.00081	0.03293

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX1H7R	0.00000	0.26298	0.46598

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX1H7R	AN->Y (RR)	0.03136	0.11867	0.32281
	BN->Y (RR)	0.03163	0.11853	0.32218
	C->Y (FR)	0.01876	0.12997	0.50531

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX1H7R	AN->Y (FF)	0.04668	0.19626	0.57018
	BN->Y (FF)	0.04869	0.19876	0.57453
	C->Y (RF)	0.03213	0.18395	0.63670

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX1H7R	AN	0.00070	0.00083	0.00124
	AN	-0.00008	-0.00007	-0.00007
	AN	0.00000	0.00001	0.00001
	AN	0.00108	0.00122	0.00161
	BN	0.00062	0.00074	0.00114
	BN	-0.00008	-0.00008	-0.00006
	BN	0.00006	0.00006	0.00006
	BN	0.00099	0.00110	0.00149
	C	0.00068	0.00078	0.00120
	C	-0.00010	-0.00010	-0.00010
	C	0.00012	0.00012	0.00012
	C	-0.00005	0.00002	0.00043

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX1H7R	AN	0.00103	0.00117	0.00160
	AN	0.00008	0.00008	0.00008
	AN	-0.00001	-0.00001	0.00000
	AN	0.00065	0.00079	0.00121
	BN	0.00114	0.00126	0.00169
	BN	0.00007	0.00008	0.00008
	BN	-0.00006	-0.00006	-0.00006
	BN	0.00078	0.00090	0.00133
	C	0.00027	0.00031	0.00054
	C	0.00010	0.00010	0.00010
	C	-0.00012	-0.00012	-0.00012
	C	0.00104	0.00109	0.00133

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7R	(BN * Y)	0.00016	0.00027	0.00066
	(BN * Y)	0.00002	0.00003	0.00003
	(BN * Y)	-0.00004	-0.00004	-0.00004
	(BN * Y)	0.00079	0.00090	0.00129
	(!BN * !C * Y)	0.00019	0.00030	0.00069
	(!BN * !C * Y)	0.00002	0.00003	0.00003
	(!BN * !C * Y)	-0.00004	-0.00004	-0.00004
	(!BN * !C * Y)	0.00082	0.00093	0.00132

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7R	(BN * Y)	0.00060	0.00072	0.00114
	(BN * Y)	-0.00003	-0.00003	-0.00002
	(BN * Y)	0.00004	0.00004	0.00004
	(BN * Y)	-0.00004	0.00008	0.00050
	(!BN * !C * Y)	0.00057	0.00069	0.00111
	(!BN * !C * Y)	-0.00003	-0.00003	-0.00002
	(!BN * !C * Y)	0.00004	0.00004	0.00004
	(!BN * !C * Y)	-0.00006	0.00006	0.00047

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7R	(AN * Y) + (!AN * !C * Y)	0.00008	0.00019	0.00056
	(AN * Y) + (!AN * !C * Y)	0.00002	0.00003	0.00003
	(AN * Y) + (!AN * !C * Y)	-0.00002	-0.00002	-0.00002
	(AN * Y) + (!AN * !C * Y)	0.00073	0.00084	0.00121

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7R	(AN * Y) + (!AN * !C * Y)	0.00073	0.00085	0.00127
	(AN * Y) + (!AN * !C * Y)	-0.00002	-0.00003	-0.00002
	(AN * Y) + (!AN * !C * Y)	0.00002	0.00002	0.00002
	(AN * Y) + (!AN * !C * Y)	0.00009	0.00020	0.00062

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7R	(AN * BN * Y)	-0.00017	-0.00017	-0.00017
	(AN * BN * Y)	-0.00000	-0.00000	-0.00000
	(AN * BN * Y)	0.00001	0.00001	0.00001
	(AN * BN * Y)	0.00024	0.00024	0.00025
	(AN * !BN * Y)	-0.00024	-0.00024	-0.00024
	(AN * !BN * Y)	-0.00000	-0.00000	-0.00000
	(AN * !BN * Y)	0.00001	0.00001	0.00001
	(AN * !BN * Y)	0.00018	0.00018	0.00018
	(!AN * BN * Y)	-0.00018	-0.00017	-0.00017
	(!AN * BN * Y)	-0.00000	-0.00000	-0.00000
	(!AN * BN * Y)	0.00001	0.00001	0.00001
	(!AN * BN * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1H7R	(AN * BN * Y)	0.00017	0.00017	0.00017
	(AN * BN * Y)	0.00000	0.00000	0.00001
	(AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * BN * Y)	-0.00024	-0.00024	-0.00023
	(AN * !BN * Y)	0.00024	0.00024	0.00025
	(AN * !BN * Y)	0.00000	0.00000	0.00000
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * !BN * Y)	-0.00018	-0.00017	-0.00016
	(!AN * BN * Y)	0.00017	0.00017	0.00018
	(!AN * BN * Y)	0.00000	0.00000	0.00001
	(!AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(!AN * BN * Y)	-0.00024	-0.00024	-0.00023

NAND3BBX1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX1P4H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX1P4H7R	0.00080	0.00083	0.00083	0.03784

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX1P4H7R	0.00000	0.27361	0.49465

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX1P4H7R	AN->Y (RR)	0.03023	0.11845	0.32482
	BN->Y (RR)	0.03208	0.12094	0.32849
	C->Y (FR)	0.01720	0.12880	0.50723

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX1P4H7R	AN->Y (FF)	0.04428	0.19472	0.57061
	BN->Y (FF)	0.04866	0.20051	0.58064
	C->Y (RF)	0.02937	0.18147	0.63518

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7R	AN	0.00071	0.00084	0.00124
	AN	-0.00009	-0.00009	-0.00009
	AN	0.00000	0.00001	0.00002
	AN	0.00109	0.00123	0.00162
	BN	0.00069	0.00081	0.00120
	BN	-0.00009	-0.00009	-0.00007
	BN	0.00007	0.00007	0.00007
	BN	0.00106	0.00118	0.00155
	C	0.00069	0.00081	0.00129
	C	-0.00011	-0.00011	-0.00011
	C	0.00014	0.00014	0.00014
	C	-0.00007	0.00001	0.00048

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7R	AN	0.00107	0.00120	0.00163
	AN	0.00009	0.00009	0.00009
	AN	-0.00001	-0.00001	-0.00000
	AN	0.00068	0.00081	0.00124
	BN	0.00123	0.00136	0.00177
	BN	0.00009	0.00009	0.00010
	BN	-0.00007	-0.00007	-0.00007
	BN	0.00086	0.00100	0.00142
	C	0.00031	0.00035	0.00063
	C	0.00011	0.00011	0.00011
	C	-0.00014	-0.00014	-0.00014
	C	0.00113	0.00117	0.00146

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7R	(BN * Y)	0.00017	0.00028	0.00067
	(BN * Y)	0.00002	0.00003	0.00003
	(BN * Y)	-0.00004	-0.00004	-0.00004
	(BN * Y)	0.00081	0.00092	0.00131
	(!BN * !C * Y)	0.00020	0.00031	0.00070
	(!BN * !C * Y)	0.00002	0.00003	0.00003
	(!BN * !C * Y)	-0.00004	-0.00004	-0.00003
	(!BN * !C * Y)	0.00085	0.00096	0.00134

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7R	(BN * Y)	0.00060	0.00072	0.00114
	(BN * Y)	-0.00003	-0.00003	-0.00002
	(BN * Y)	0.00004	0.00004	0.00004
	(BN * Y)	-0.00004	0.00008	0.00049
	(!BN * !C * Y)	0.00057	0.00069	0.00111
	(!BN * !C * Y)	-0.00003	-0.00003	-0.00002
	(!BN * !C * Y)	0.00004	0.00004	0.00004
	(!BN * !C * Y)	-0.00007	0.00005	0.00046

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7R	(AN * Y) + (!AN * !C * Y)	0.00012	0.00022	0.00058
	(AN * Y) + (!AN * !C * Y)	0.00003	0.00003	0.00003
	(AN * Y) + (!AN * !C * Y)	-0.00003	-0.00003	-0.00002
	(AN * Y) + (!AN * !C * Y)	0.00079	0.00088	0.00125

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7R	(AN * Y) + (!AN * !C * Y)	0.00077	0.00089	0.00129
	(AN * Y) + (!AN * !C * Y)	-0.00003	-0.00003	-0.00002
	(AN * Y) + (!AN * !C * Y)	0.00002	0.00003	0.00003
	(AN * Y) + (!AN * !C * Y)	0.00011	0.00023	0.00063

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7R	(AN * BN * Y)	-0.00017	-0.00017	-0.00017
	(AN * BN * Y)	-0.00001	-0.00001	-0.00000
	(AN * BN * Y)	0.00001	0.00001	0.00001
	(AN * BN * Y)	0.00026	0.00026	0.00026
	(AN * !BN * Y)	-0.00024	-0.00024	-0.00024
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00000
	(AN * !BN * Y)	0.00001	0.00001	0.00001
	(AN * !BN * Y)	0.00020	0.00020	0.00020
	(!AN * BN * Y)	-0.00017	-0.00017	-0.00017
	(!AN * BN * Y)	-0.00001	-0.00001	-0.00000
	(!AN * BN * Y)	0.00001	0.00001	0.00001
	(!AN * BN * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX1P4H7R	(AN * BN * Y)	0.00017	0.00017	0.00017
	(AN * BN * Y)	0.00000	0.00001	0.00001
	(AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * BN * Y)	-0.00026	-0.00026	-0.00024
	(AN * !BN * Y)	0.00024	0.00024	0.00025
	(AN * !BN * Y)	0.00000	0.00001	0.00001
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * !BN * Y)	-0.00020	-0.00019	-0.00017
	(!AN * BN * Y)	0.00017	0.00017	0.00018
	(!AN * BN * Y)	0.00000	0.00001	0.00001
	(!AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(!AN * BN * Y)	-0.00026	-0.00026	-0.00025

NAND3BBX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX2H7R	0.00093	0.00093	0.00085	0.02374

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX2H7R	0.00000	0.29801	0.52673

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX2H7R	AN->Y (RR)	0.02961	0.09016	0.22714
	BN->Y (RR)	0.02974	0.08998	0.22643
	C->Y (FR)	0.01486	0.08843	0.35706

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX2H7R	AN->Y (FF)	0.05010	0.18618	0.52616
	BN->Y (FF)	0.05171	0.18819	0.52996
	C->Y (RF)	0.04141	0.18882	0.62223

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX2H7R	AN	0.00072	0.00088	0.00142
	AN	-0.00010	-0.00009	-0.00009
	AN	-0.00000	0.00000	0.00001
	AN	0.00119	0.00135	0.00187
	BN	0.00064	0.00079	0.00131
	BN	-0.00009	-0.00009	-0.00009
	BN	0.00003	0.00004	0.00004
	BN	0.00109	0.00124	0.00176
	C	0.00070	0.00081	0.00123
	C	-0.00014	-0.00013	-0.00013
	C	0.00009	0.00009	0.00009
	C	-0.00004	0.00003	0.00044

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX2H7R	AN	0.00116	0.00134	0.00191
	AN	0.00009	0.00009	0.00010
	AN	-0.00000	0.00000	0.00000
	AN	0.00069	0.00087	0.00143
	BN	0.00125	0.00142	0.00199
	BN	0.00009	0.00009	0.00010
	BN	-0.00004	-0.00004	-0.00003
	BN	0.00081	0.00098	0.00155
	C	0.00023	0.00028	0.00051
	C	0.00013	0.00014	0.00014
	C	-0.00009	-0.00009	-0.00009
	C	0.00103	0.00108	0.00131

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7R	(BN * Y)	0.00015	0.00030	0.00082
	(BN * Y)	0.00004	0.00005	0.00005
	(BN * Y)	-0.00003	-0.00003	-0.00003
	(BN * Y)	0.00090	0.00104	0.00156
	(!BN * !C * Y)	0.00018	0.00032	0.00085
	(!BN * !C * Y)	0.00005	0.00005	0.00005
	(!BN * !C * Y)	-0.00003	-0.00003	-0.00003
	(!BN * !C * Y)	0.00092	0.00107	0.00159

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7R	(BN * Y)	0.00068	0.00084	0.00140
	(BN * Y)	-0.00005	-0.00005	-0.00004
	(BN * Y)	0.00003	0.00003	0.00003
	(BN * Y)	-0.00006	0.00010	0.00066
	(!BN * !C * Y)	0.00066	0.00082	0.00138
	(!BN * !C * Y)	-0.00005	-0.00005	-0.00004
	(!BN * !C * Y)	0.00003	0.00003	0.00003
	(!BN * !C * Y)	-0.00009	0.00007	0.00063

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7R	(AN * Y) + (!AN * !C * Y)	0.00008	0.00022	0.00073
	(AN * Y) + (!AN * !C * Y)	0.00005	0.00005	0.00005
	(AN * Y) + (!AN * !C * Y)	-0.00002	-0.00002	-0.00002
	(AN * Y) + (!AN * !C * Y)	0.00083	0.00097	0.00148

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7R	(AN * Y) + (!AN * !C * Y)	0.00081	0.00097	0.00153
	(AN * Y) + (!AN * !C * Y)	-0.00005	-0.00005	-0.00005
	(AN * Y) + (!AN * !C * Y)	0.00002	0.00002	0.00002
	(AN * Y) + (!AN * !C * Y)	0.00006	0.00022	0.00078

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7R	(AN * BN * Y)	-0.00022	-0.00022	-0.00022
	(AN * BN * Y)	-0.00001	-0.00001	-0.00000
	(AN * BN * Y)	0.00001	0.00001	0.00001
	(AN * BN * Y)	0.00021	0.00022	0.00022
	(AN * !BN * Y)	-0.00028	-0.00028	-0.00027
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * !BN * Y)	0.00001	0.00001	0.00001
	(AN * !BN * Y)	0.00016	0.00016	0.00016
	(!AN * BN * Y)	-0.00022	-0.00022	-0.00022
	(!AN * BN * Y)	-0.00001	-0.00001	-0.00000
	(!AN * BN * Y)	0.00001	0.00001	0.00001
	(!AN * BN * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX2H7R	(AN * BN * Y)	0.00022	0.00022	0.00022
	(AN * BN * Y)	0.00000	0.00001	0.00001
	(AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * BN * Y)	-0.00022	-0.00021	-0.00021
	(AN * !BN * Y)	0.00028	0.00028	0.00028
	(AN * !BN * Y)	0.00001	0.00001	0.00001
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * !BN * Y)	-0.00016	-0.00015	-0.00014
	(!AN * BN * Y)	0.00022	0.00022	0.00022
	(!AN * BN * Y)	0.00001	0.00001	0.00001
	(!AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(!AN * BN * Y)	-0.00022	-0.00021	-0.00021

NAND3BBX3H7R

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX3H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX3H7R	0.00080	0.00081	0.00159	0.06695

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX3H7R	0.00000	0.35011	0.67137

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX3H7R	AN->Y (RR)	0.03354	0.12651	0.34048
	BN->Y (RR)	0.03800	0.13269	0.35003
	C->Y (FR)	0.01634	0.12642	0.49851

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX3H7R	AN->Y (FF)	0.04698	0.20035	0.57941
	BN->Y (FF)	0.05740	0.21390	0.60079
	C->Y (RF)	0.03181	0.18026	0.62494

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX3H7R	AN	0.00124	0.00140	0.00179
	AN	-0.00019	-0.00018	-0.00017
	AN	0.00002	0.00003	0.00005
	AN	0.00143	0.00160	0.00199
	BN	0.00145	0.00158	0.00194
	BN	-0.00018	-0.00018	-0.00015
	BN	0.00013	0.00014	0.00014
	BN	0.00156	0.00169	0.00205
	C	0.00141	0.00161	0.00250
	C	-0.00020	-0.00020	-0.00020
	C	0.00025	0.00025	0.00025
	C	-0.00006	0.00010	0.00096

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX3H7R	AN	0.00149	0.00164	0.00206
	AN	0.00018	0.00018	0.00019
	AN	-0.00003	-0.00003	-0.00002
	AN	0.00130	0.00144	0.00186
	BN	0.00191	0.00204	0.00241
	BN	0.00018	0.00018	0.00018
	BN	-0.00014	-0.00014	-0.00013
	BN	0.00181	0.00195	0.00232
	C	0.00071	0.00080	0.00127
	C	0.00020	0.00020	0.00021
	C	-0.00025	-0.00025	-0.00025
	C	0.00229	0.00237	0.00285

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7R	(BN * Y)	0.00037	0.00046	0.00080
	(BN * Y)	0.00003	0.00003	0.00003
	(BN * Y)	-0.00006	-0.00006	-0.00006
	(BN * Y)	0.00103	0.00112	0.00147
	(!BN * !C * Y)	0.00042	0.00051	0.00086
	(!BN * !C * Y)	0.00003	0.00003	0.00003
	(!BN * !C * Y)	-0.00006	-0.00006	-0.00006
	(!BN * !C * Y)	0.00109	0.00118	0.00152

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7R	(BN * Y)	0.00074	0.00084	0.00120
	(BN * Y)	-0.00003	-0.00003	-0.00003
	(BN * Y)	0.00006	0.00006	0.00006
	(BN * Y)	0.00007	0.00017	0.00054
	(!BN * !C * Y)	0.00068	0.00078	0.00115
	(!BN * !C * Y)	-0.00003	-0.00003	-0.00003
	(!BN * !C * Y)	0.00006	0.00006	0.00006
	(!BN * !C * Y)	0.00001	0.00011	0.00048

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7R	(AN * Y) + (!AN * !C * Y)	0.00028	0.00036	0.00066
	(AN * Y) + (!AN * !C * Y)	0.00003	0.00003	0.00003
	(AN * Y) + (!AN * !C * Y)	-0.00004	-0.00003	-0.00003
	(AN * Y) + (!AN * !C * Y)	0.00094	0.00102	0.00132

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7R	(AN * Y) + (!AN * !C * Y)	0.00107	0.00117	0.00152
	(AN * Y) + (!AN * !C * Y)	-0.00003	-0.00003	-0.00003
	(AN * Y) + (!AN * !C * Y)	0.00003	0.00003	0.00004
	(AN * Y) + (!AN * !C * Y)	0.00042	0.00052	0.00087

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7R	(AN * BN * Y)	-0.00035	-0.00035	-0.00034
	(AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * BN * Y)	0.00002	0.00002	0.00003
	(AN * BN * Y)	0.00046	0.00046	0.00046
	(AN * !BN * Y)	-0.00042	-0.00042	-0.00041
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * !BN * Y)	0.00002	0.00002	0.00003
	(AN * !BN * Y)	0.00040	0.00040	0.00040
	(!AN * BN * Y)	-0.00035	-0.00035	-0.00034
	(!AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(!AN * BN * Y)	0.00002	0.00002	0.00002
	(!AN * BN * Y)	0.00046	0.00047	0.00047

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX3H7R	(AN * BN * Y)	0.00034	0.00035	0.00035
	(AN * BN * Y)	0.00001	0.00001	0.00001
	(AN * BN * Y)	-0.00003	-0.00002	-0.00002
	(AN * BN * Y)	-0.00046	-0.00045	-0.00043
	(AN * !BN * Y)	0.00042	0.00043	0.00044
	(AN * !BN * Y)	0.00001	0.00001	0.00001
	(AN * !BN * Y)	-0.00003	-0.00002	-0.00002
	(AN * !BN * Y)	-0.00040	-0.00038	-0.00036
	(!AN * BN * Y)	0.00035	0.00035	0.00035
	(!AN * BN * Y)	0.00001	0.00001	0.00001
	(!AN * BN * Y)	-0.00002	-0.00002	-0.00002
	(!AN * BN * Y)	-0.00046	-0.00045	-0.00043

NAND3BBX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX4H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX4H7R	0.00141	0.00143	0.00129	0.03695

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX4H7R	0.00000	0.50139	0.90982

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX4H7R	AN->Y (RR)	0.02536	0.07962	0.20364
	BN->Y (RR)	0.02753	0.08306	0.20927
	C->Y (FR)	0.01151	0.07229	0.30719

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX4H7R	AN->Y (FF)	0.04376	0.17564	0.50600
	BN->Y (FF)	0.04848	0.18206	0.51629
	C->Y (RF)	0.03802	0.18769	0.62712

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX4H7R	AN	0.00104	0.00132	0.00226
	AN	-0.00019	-0.00019	-0.00018
	AN	0.00000	0.00000	0.00000
	AN	0.00171	0.00199	0.00291
	BN	0.00109	0.00136	0.00228
	BN	-0.00019	-0.00019	-0.00017
	BN	0.00006	0.00006	0.00006
	BN	0.00178	0.00204	0.00292
	C	0.00108	0.00126	0.00196
	C	-0.00027	-0.00027	-0.00024
	C	0.00014	0.00014	0.00014
	C	-0.00016	-0.00003	0.00064

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX4H7R	AN	0.00180	0.00211	0.00307
	AN	0.00018	0.00019	0.00019
	AN	-0.00000	-0.00000	0.00000
	AN	0.00113	0.00143	0.00241
	BN	0.00205	0.00235	0.00329
	BN	0.00019	0.00019	0.00019
	BN	-0.00006	-0.00006	-0.00006
	BN	0.00138	0.00167	0.00261
	C	0.00037	0.00046	0.00086
	C	0.00027	0.00027	0.00027
	C	-0.00014	-0.00014	-0.00014
	C	0.00170	0.00178	0.00220

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7R	(BN * Y)	0.00022	0.00048	0.00140
	(BN * Y)	0.00009	0.00009	0.00009
	(BN * Y)	-0.00006	-0.00005	-0.00005
	(BN * Y)	0.00138	0.00164	0.00255
	(!BN * !C * Y)	0.00025	0.00051	0.00143
	(!BN * !C * Y)	0.00009	0.00009	0.00009
	(!BN * !C * Y)	-0.00005	-0.00005	-0.00005
	(!BN * !C * Y)	0.00141	0.00167	0.00259

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7R	(BN * Y)	0.00102	0.00129	0.00225
	(BN * Y)	-0.00009	-0.00009	-0.00009
	(BN * Y)	0.00005	0.00006	0.00006
	(BN * Y)	-0.00014	0.00013	0.00109
	(!BN * !C * Y)	0.00098	0.00126	0.00222
	(!BN * !C * Y)	-0.00009	-0.00009	-0.00009
	(!BN * !C * Y)	0.00005	0.00005	0.00005
	(!BN * !C * Y)	-0.00017	0.00011	0.00106

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7R	(AN * Y) + (!AN * !C * Y)	0.00021	0.00045	0.00131
	(AN * Y) + (!AN * !C * Y)	0.00009	0.00009	0.00009
	(AN * Y) + (!AN * !C * Y)	-0.00004	-0.00003	-0.00003
	(AN * Y) + (!AN * !C * Y)	0.00141	0.00166	0.00252

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7R	(AN * Y) + (!AN * !C * Y)	0.00124	0.00151	0.00244
	(AN * Y) + (!AN * !C * Y)	-0.00009	-0.00009	-0.00009
	(AN * Y) + (!AN * !C * Y)	0.00003	0.00003	0.00004
	(AN * Y) + (!AN * !C * Y)	0.00004	0.00031	0.00124

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7R	(AN * BN * Y)	-0.00039	-0.00038	-0.00038
	(AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * BN * Y)	0.00001	0.00001	0.00001
	(AN * BN * Y)	0.00033	0.00033	0.00033
	(AN * !BN * Y)	-0.00046	-0.00046	-0.00046
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * !BN * Y)	0.00001	0.00001	0.00001
	(AN * !BN * Y)	0.00025	0.00026	0.00026
	(!AN * BN * Y)	-0.00039	-0.00038	-0.00038
	(!AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(!AN * BN * Y)	0.00001	0.00001	0.00001
	(!AN * BN * Y)	0.00033	0.00033	0.00033

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX4H7R	(AN * BN * Y)	0.00038	0.00038	0.00039
	(AN * BN * Y)	0.00001	0.00001	0.00001
	(AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * BN * Y)	-0.00033	-0.00032	-0.00032
	(AN * !BN * Y)	0.00046	0.00047	0.00047
	(AN * !BN * Y)	0.00001	0.00001	0.00001
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00001
	(AN * !BN * Y)	-0.00025	-0.00024	-0.00023
	(!AN * BN * Y)	0.00038	0.00038	0.00039
	(!AN * BN * Y)	0.00001	0.00001	0.00002
	(!AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(!AN * BN * Y)	-0.00033	-0.00032	-0.00031

NAND3BBX6H7R

Cell Description

3-Input NAND with 2 Inverted Inputs

NAND3BB, In: AN, BN, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	BN	C	Y
0	x	0	1
0	0	1	0
x	1	1	1
1	x	x	1

Footprint

Cell Name	Area
NAND3BBX6H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	BN	C	Y
NAND3BBX6H7R	0.00106	0.00107	0.00093	0.04434

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BBX6H7R	0.00000	0.43462	0.74248

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX6H7R	AN->Y (RR)	0.02501	0.10762	0.30526
	BN->Y (RR)	0.02625	0.10905	0.30686
	C->Y (FR)	0.01695	0.12848	0.50743

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BBX6H7R	AN->Y (FF)	0.03696	0.18025	0.54054
	BN->Y (FF)	0.04019	0.18433	0.54754
	C->Y (RF)	0.02773	0.17688	0.62403

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX6H7R	AN	0.00082	0.00104	0.00179
	AN	-0.00009	-0.00009	-0.00009
	AN	-0.00000	0.00000	0.00000
	AN	0.00139	0.00162	0.00234
	BN	0.00079	0.00100	0.00173
	BN	-0.00009	-0.00009	-0.00009
	BN	0.00007	0.00007	0.00007
	BN	0.00133	0.00154	0.00224
	C	0.00082	0.00096	0.00153
	C	-0.00014	-0.00014	-0.00013
	C	0.00016	0.00017	0.00017
	C	-0.00003	0.00006	0.00061

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BBX6H7R	AN	0.00131	0.00155	0.00231
	AN	0.00009	0.00009	0.00010
	AN	-0.00000	-0.00000	0.00000
	AN	0.00073	0.00097	0.00173
	BN	0.00148	0.00170	0.00245
	BN	0.00009	0.00009	0.00010
	BN	-0.00007	-0.00007	-0.00007
	BN	0.00095	0.00118	0.00192
	C	0.00036	0.00042	0.00075
	C	0.00013	0.00014	0.00014
	C	-0.00017	-0.00017	-0.00016
	C	0.00127	0.00135	0.00168

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7R	(BN * Y)	0.00017	0.00038	0.00109
	(BN * Y)	0.00005	0.00005	0.00005
	(BN * Y)	-0.00006	-0.00006	-0.00006
	(BN * Y)	0.00104	0.00124	0.00196
	(!BN * !C * Y)	0.00021	0.00041	0.00113
	(!BN * !C * Y)	0.00005	0.00005	0.00005
	(!BN * !C * Y)	-0.00006	-0.00006	-0.00006
	(!BN * !C * Y)	0.00107	0.00128	0.00200

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7R	(BN * Y)	0.00076	0.00097	0.00173
	(BN * Y)	-0.00005	-0.00005	-0.00005
	(BN * Y)	0.00006	0.00006	0.00006
	(BN * Y)	-0.00011	0.00011	0.00086
	(!BN * !C * Y)	0.00073	0.00095	0.00170
	(!BN * !C * Y)	-0.00005	-0.00005	-0.00004
	(!BN * !C * Y)	0.00006	0.00006	0.00006
	(!BN * !C * Y)	-0.00014	0.00007	0.00083

Passive power(pJ) for BN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7R	(AN * Y) + (!AN * !C * Y)	0.00010	0.00030	0.00098
	(AN * Y) + (!AN * !C * Y)	0.00004	0.00005	0.00005
	(AN * Y) + (!AN * !C * Y)	-0.00005	-0.00004	-0.00004
	(AN * Y) + (!AN * !C * Y)	0.00098	0.00117	0.00186

Passive power(pJ) for BN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7R	(AN * Y) + (!AN * !C * Y)	0.00094	0.00115	0.00189
	(AN * Y) + (!AN * !C * Y)	-0.00005	-0.00005	-0.00004
	(AN * Y) + (!AN * !C * Y)	0.00004	0.00004	0.00005
	(AN * Y) + (!AN * !C * Y)	0.00007	0.00028	0.00102

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7R	(AN * BN * Y)	-0.00020	-0.00020	-0.00020
	(AN * BN * Y)	-0.00001	-0.00001	-0.00000
	(AN * BN * Y)	0.00001	0.00002	0.00002
	(AN * BN * Y)	0.00028	0.00028	0.00028
	(AN * !BN * Y)	-0.00027	-0.00027	-0.00027
	(AN * !BN * Y)	-0.00001	-0.00001	-0.00000
	(AN * !BN * Y)	0.00001	0.00001	0.00002
	(AN * !BN * Y)	0.00021	0.00022	0.00022
	(!AN * BN * Y)	-0.00021	-0.00020	-0.00020
	(!AN * BN * Y)	-0.00001	-0.00000	0.00000
	(!AN * BN * Y)	0.00001	0.00001	0.00001
	(!AN * BN * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for C falling (conditional):

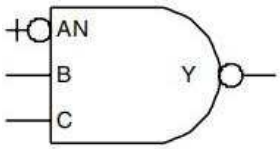
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BBX6H7R	(AN * BN * Y)	0.00020	0.00020	0.00020
	(AN * BN * Y)	0.00000	0.00001	0.00001
	(AN * BN * Y)	-0.00002	-0.00002	-0.00001
	(AN * BN * Y)	-0.00028	-0.00028	-0.00026
	(AN * !BN * Y)	0.00027	0.00028	0.00028
	(AN * !BN * Y)	0.00000	0.00001	0.00001
	(AN * !BN * Y)	-0.00002	-0.00001	-0.00001
	(AN * !BN * Y)	-0.00022	-0.00021	-0.00020
	(!AN * BN * Y)	0.00020	0.00020	0.00021
	(!AN * BN * Y)	0.00001	0.00001	0.00001
	(!AN * BN * Y)	-0.00001	-0.00001	-0.00001
	(!AN * BN * Y)	-0.00028	-0.00028	-0.00027

NAND3BX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX0P5H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX0P5H7R	0.00083	0.00066	0.00075	0.02386

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX0P5H7R	0.00000	0.15215	0.28639

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX0P5H7R	AN->Y (RR)	0.03401	0.11779	0.31470
	B->Y (FR)	0.01958	0.12746	0.49437
	C->Y (FR)	0.01854	0.12524	0.49280

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX0P5H7R	AN->Y (FF)	0.05099	0.19365	0.55087
	B->Y (RF)	0.03170	0.18522	0.65434
	C->Y (RF)	0.02990	0.18139	0.65010

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX0P5H7R	AN	0.00073	0.00084	0.00125
	AN	-0.00005	-0.00005	-0.00005
	AN	0.00007	0.00007	0.00007
	AN	0.00090	0.00101	0.00141
	B	0.00068	0.00075	0.00108
	B	-0.00007	-0.00007	-0.00007
	B	0.00004	0.00005	0.00005
	B	-0.00003	0.00003	0.00035
	C	0.00059	0.00065	0.00102
	C	-0.00007	-0.00007	-0.00007
	C	0.00001	0.00002	0.00002
	C	-0.00005	0.00002	0.00038

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX0P5H7R	AN	0.00084	0.00097	0.00140
	AN	0.00005	0.00005	0.00005
	AN	-0.00007	-0.00007	-0.00007
	AN	0.00069	0.00082	0.00125
	B	-0.00006	-0.00002	0.00018
	B	0.00007	0.00007	0.00007
	B	-0.00005	-0.00005	-0.00004
	B	0.00066	0.00072	0.00093
	C	-0.00003	0.00002	0.00032
	C	0.00007	0.00007	0.00007
	C	-0.00002	-0.00002	-0.00001
	C	0.00060	0.00065	0.00096

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7R	(B * !C * Y) + (!B * C * Y)	0.00003	0.00014	0.00053
	(B * !C * Y) + (!B * C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y) + (!B * C * Y)	-0.00003	-0.00002	-0.00002
	(B * !C * Y) + (!B * C * Y)	0.00072	0.00082	0.00121
	(!B * !C * Y)	0.00003	0.00014	0.00053
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	-0.00003	-0.00002	-0.00002
	(!B * !C * Y)	0.00071	0.00082	0.00121

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7R	(B * !C * Y) + (!B * C * Y)	0.00070	0.00083	0.00126
	(B * !C * Y) + (!B * C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y) + (!B * C * Y)	0.00002	0.00002	0.00003
	(B * !C * Y) + (!B * C * Y)	0.00002	0.00014	0.00057
	(!B * !C * Y)	0.00070	0.00082	0.00125
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	0.00002	0.00002	0.00003
	(!B * !C * Y)	0.00002	0.00015	0.00057

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7R	(AN * C * Y)	-0.00013	-0.00013	-0.00013
	(AN * C * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * Y)	0.00003	0.00003	0.00003
	(AN * C * Y)	0.00011	0.00011	0.00011
	(AN * !C * Y)	-0.00013	-0.00013	-0.00013
	(AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * Y)	0.00004	0.00004	0.00004
	(AN * !C * Y)	0.00011	0.00011	0.00011
	(!AN * !C * Y)	-0.00017	-0.00017	-0.00016
	(!AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * Y)	0.00001	0.00001	0.00001
	(!AN * !C * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7R	(AN * C * Y)	0.00013	0.00013	0.00013
	(AN * C * Y)	0.00000	0.00000	0.00000
	(AN * C * Y)	-0.00003	-0.00003	-0.00003
	(AN * C * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * Y)	0.00013	0.00013	0.00013
	(AN * !C * Y)	0.00000	0.00000	0.00000
	(AN * !C * Y)	-0.00004	-0.00004	-0.00004
	(AN * !C * Y)	-0.00011	-0.00011	-0.00011
	(!AN * !C * Y)	0.00017	0.00017	0.00018
	(!AN * !C * Y)	0.00000	0.00000	0.00000
	(!AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * Y)	-0.00015	-0.00014	-0.00013

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7R	(AN * B * Y)	-0.00021	-0.00020	-0.00020
	(AN * B * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * Y)	0.00001	0.00002	0.00002
	(AN * B * Y)	0.00008	0.00008	0.00008
	(!B * Y)	-0.00021	-0.00020	-0.00020
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C falling (conditional):

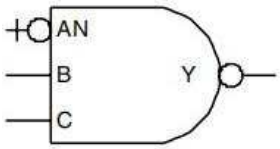
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P5H7R	(AN * B * Y)	0.00020	0.00020	0.00021
	(AN * B * Y)	0.00000	0.00000	0.00000
	(AN * B * Y)	-0.00002	-0.00002	-0.00001
	(AN * B * Y)	-0.00008	-0.00008	-0.00007
	(!B * Y)	0.00020	0.00020	0.00021
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00008	-0.00008	-0.00008

NAND3BX0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX0P7H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX0P7H7R	0.00082	0.00069	0.00079	0.02724

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX0P7H7R	0.00000	0.15972	0.30512

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX0P7H7R	AN->Y (RR)	0.03294	0.11762	0.31656
	B->Y (FR)	0.01828	0.12652	0.49674
	C->Y (FR)	0.01715	0.12413	0.49481

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX0P7H7R	AN->Y (FF)	0.04896	0.19273	0.55281
	B->Y (RF)	0.02932	0.18346	0.65616
	C->Y (RF)	0.02726	0.17914	0.65042

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX0P7H7R	AN	0.00079	0.00090	0.00131
	AN	-0.00006	-0.00006	-0.00006
	AN	0.00008	0.00009	0.00009
	AN	0.00090	0.00101	0.00140
	B	0.00069	0.00080	0.00117
	B	-0.00008	-0.00008	-0.00008
	B	0.00005	0.00006	0.00009
	B	-0.00006	0.00002	0.00037
	C	0.00060	0.00069	0.00111
	C	-0.00008	-0.00008	-0.00008
	C	0.00002	0.00002	0.00003
	C	-0.00006	0.00002	0.00042

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX0P7H7R	AN	0.00085	0.00098	0.00141
	AN	0.00006	0.00006	0.00006
	AN	-0.00009	-0.00009	-0.00008
	AN	0.00077	0.00089	0.00133
	B	-0.00006	-0.00002	0.00022
	B	0.00008	0.00008	0.00008
	B	-0.00006	-0.00006	-0.00005
	B	0.00074	0.00078	0.00102
	C	-0.00004	0.00002	0.00037
	C	0.00008	0.00008	0.00008
	C	-0.00002	-0.00002	-0.00002
	C	0.00063	0.00070	0.00105

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7R	(B * !C * Y) + (!B * C * Y)	0.00004	0.00015	0.00054
	(B * !C * Y) + (!B * C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y) + (!B * C * Y)	-0.00003	-0.00003	-0.00002
	(B * !C * Y) + (!B * C * Y)	0.00072	0.00082	0.00121
	(!B * !C * Y)	0.00004	0.00015	0.00054
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * Y)	0.00071	0.00082	0.00121

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7R	(B * !C * Y) + (!B * C * Y)	0.00071	0.00083	0.00126
	(B * !C * Y) + (!B * C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y) + (!B * C * Y)	0.00002	0.00003	0.00003
	(B * !C * Y) + (!B * C * Y)	0.00004	0.00016	0.00058
	(!B * !C * Y)	0.00070	0.00083	0.00125
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	0.00003	0.00003	0.00003
	(!B * !C * Y)	0.00004	0.00016	0.00059

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7R	(AN * C * Y)	-0.00014	-0.00014	-0.00014
	(AN * C * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * Y)	0.00003	0.00003	0.00004
	(AN * C * Y)	0.00010	0.00010	0.00010
	(AN * !C * Y)	-0.00014	-0.00014	-0.00014
	(AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * Y)	0.00005	0.00005	0.00005
	(AN * !C * Y)	0.00010	0.00010	0.00010
	(!AN * !C * Y)	-0.00017	-0.00017	-0.00017
	(!AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * Y)	0.00001	0.00001	0.00001
	(!AN * !C * Y)	0.00017	0.00017	0.00017

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7R	(AN * C * Y)	0.00014	0.00014	0.00014
	(AN * C * Y)	0.00000	0.00000	0.00000
	(AN * C * Y)	-0.00003	-0.00003	-0.00003
	(AN * C * Y)	-0.00010	-0.00010	-0.00010
	(AN * !C * Y)	0.00014	0.00014	0.00014
	(AN * !C * Y)	0.00000	0.00000	0.00000
	(AN * !C * Y)	-0.00005	-0.00005	-0.00005
	(AN * !C * Y)	-0.00010	-0.00010	-0.00010
	(!AN * !C * Y)	0.00017	0.00018	0.00018
	(!AN * !C * Y)	0.00000	0.00000	0.00000
	(!AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * Y)	-0.00016	-0.00016	-0.00014

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7R	(AN * B * Y)	-0.00022	-0.00022	-0.00022
	(AN * B * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * Y)	0.00001	0.00002	0.00002
	(AN * B * Y)	0.00008	0.00008	0.00008
	(!B * Y)	-0.00022	-0.00022	-0.00022
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00007	0.00008	0.00008

Passive power(pJ) for C falling (conditional):

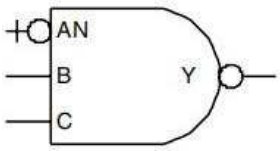
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX0P7H7R	(AN * B * Y)	0.00022	0.00022	0.00022
	(AN * B * Y)	0.00000	0.00000	0.00000
	(AN * B * Y)	-0.00002	-0.00002	-0.00001
	(AN * B * Y)	-0.00008	-0.00008	-0.00007
	(!B * Y)	0.00022	0.00022	0.00022
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00008	-0.00008	-0.00007

NAND3BX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX1H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX1H7R	0.00084	0.00074	0.00086	0.03194

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX1H7R	0.00000	0.17083	0.33084

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX1H7R	AN->Y (RR)	0.03233	0.11687	0.31450
	B->Y (FR)	0.01716	0.12432	0.49368
	C->Y (FR)	0.01614	0.12198	0.49187

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX1H7R	AN->Y (FF)	0.04822	0.19323	0.55598
	B->Y (RF)	0.02779	0.18252	0.65667
	C->Y (RF)	0.02589	0.17812	0.65077

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX1H7R	AN	0.00093	0.00104	0.00144
	AN	-0.00008	-0.00008	-0.00007
	AN	0.00010	0.00010	0.00010
	AN	0.00095	0.00107	0.00146
	B	0.00081	0.00092	0.00134
	B	-0.00010	-0.00010	-0.00007
	B	0.00005	0.00007	0.00011
	B	-0.00006	0.00003	0.00044
	C	0.00069	0.00079	0.00128
	C	-0.00010	-0.00010	-0.00009
	C	0.00002	0.00002	0.00003
	C	-0.00006	0.00003	0.00051

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX1H7R	AN	0.00088	0.00101	0.00143
	AN	0.00007	0.00008	0.00008
	AN	-0.00010	-0.00010	-0.00010
	AN	0.00087	0.00100	0.00145
	B	-0.00006	-0.00002	0.00026
	B	0.00010	0.00010	0.00010
	B	-0.00007	-0.00007	-0.00005
	B	0.00082	0.00089	0.00117
	C	-0.00004	0.00003	0.00043
	C	0.00010	0.00010	0.00010
	C	-0.00002	-0.00002	-0.00002
	C	0.00072	0.00079	0.00121

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7R	(B * !C * Y) + (!B * C * Y)	0.00006	0.00017	0.00055
	(B * !C * Y) + (!B * C * Y)	0.00002	0.00003	0.00003
	(B * !C * Y) + (!B * C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y) + (!B * C * Y)	0.00076	0.00086	0.00124
	(!B * !C * Y)	0.00006	0.00017	0.00055
	(!B * !C * Y)	0.00002	0.00003	0.00003
	(!B * !C * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * Y)	0.00075	0.00085	0.00123

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7R	(B * !C * Y) + (!B * C * Y)	0.00072	0.00084	0.00126
	(B * !C * Y) + (!B * C * Y)	-0.00003	-0.00003	-0.00002
	(B * !C * Y) + (!B * C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y) + (!B * C * Y)	0.00003	0.00015	0.00057
	(!B * !C * Y)	0.00072	0.00084	0.00126
	(!B * !C * Y)	-0.00003	-0.00003	-0.00002
	(!B * !C * Y)	0.00003	0.00003	0.00003
	(!B * !C * Y)	0.00004	0.00016	0.00058

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7R	(AN * C * Y)	-0.00016	-0.00016	-0.00016
	(AN * C * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * Y)	0.00004	0.00004	0.00004
	(AN * C * Y)	0.00011	0.00011	0.00011
	(AN * !C * Y)	-0.00016	-0.00016	-0.00016
	(AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * Y)	0.00005	0.00005	0.00005
	(AN * !C * Y)	0.00011	0.00011	0.00011
	(!AN * !C * Y)	-0.00019	-0.00019	-0.00019
	(!AN * !C * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * Y)	0.00001	0.00001	0.00001
	(!AN * !C * Y)	0.00018	0.00018	0.00019

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7R	(AN * C * Y)	0.00016	0.00016	0.00016
	(AN * C * Y)	0.00000	0.00000	0.00000
	(AN * C * Y)	-0.00004	-0.00004	-0.00004
	(AN * C * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * Y)	0.00016	0.00016	0.00016
	(AN * !C * Y)	0.00000	0.00000	0.00000
	(AN * !C * Y)	-0.00005	-0.00005	-0.00005
	(AN * !C * Y)	-0.00011	-0.00011	-0.00011
	(!AN * !C * Y)	0.00019	0.00020	0.00021
	(!AN * !C * Y)	0.00000	0.00000	0.00000
	(!AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7R	(AN * B * Y)	-0.00026	-0.00026	-0.00026
	(AN * B * Y)	-0.00001	-0.00000	-0.00000
	(AN * B * Y)	0.00002	0.00002	0.00002
	(AN * B * Y)	0.00007	0.00007	0.00007
	(!B * Y)	-0.00026	-0.00026	-0.00026
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00002	0.00003	0.00003
	(!B * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for C falling (conditional):

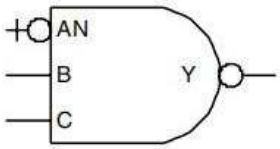
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1H7R	(AN * B * Y)	0.00026	0.00026	0.00026
	(AN * B * Y)	0.00000	0.00001	0.00001
	(AN * B * Y)	-0.00002	-0.00002	-0.00002
	(AN * B * Y)	-0.00007	-0.00006	-0.00006
	(!B * Y)	0.00026	0.00026	0.00026
	(!B * Y)	0.00000	0.00001	0.00001
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00006	-0.00006	-0.00006

NAND3BX1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX1P4H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX1P4H7R	0.00085	0.00079	0.00091	0.03675

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX1P4H7R	0.00000	0.18147	0.35635

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX1P4H7R	AN->Y (RR)	0.03171	0.11752	0.31795
	B->Y (FR)	0.01599	0.12351	0.49580
	C->Y (FR)	0.01491	0.12112	0.49442

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX1P4H7R	AN->Y (FF)	0.04675	0.19297	0.55834
	B->Y (RF)	0.02556	0.18052	0.65856
	C->Y (RF)	0.02347	0.17585	0.65126

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX1P4H7R	AN	0.00100	0.00111	0.00150
	AN	-0.00009	-0.00009	-0.00009
	AN	0.00012	0.00012	0.00012
	AN	0.00095	0.00108	0.00147
	B	0.00085	0.00097	0.00146
	B	-0.00011	-0.00011	-0.00011
	B	0.00006	0.00008	0.00011
	B	-0.00010	0.00001	0.00048
	C	0.00071	0.00084	0.00141
	C	-0.00011	-0.00011	-0.00010
	C	0.00002	0.00003	0.00004
	C	-0.00009	0.00002	0.00057

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX1P4H7R	AN	0.00091	0.00104	0.00146
	AN	0.00009	0.00009	0.00010
	AN	-0.00012	-0.00012	-0.00012
	AN	0.00097	0.00110	0.00152
	B	-0.00007	-0.00002	0.00031
	B	0.00011	0.00011	0.00011
	B	-0.00009	-0.00008	-0.00006
	B	0.00091	0.00097	0.00130
	C	-0.00005	0.00003	0.00051
	C	0.00011	0.00011	0.00011
	C	-0.00003	-0.00003	-0.00002
	C	0.00078	0.00085	0.00135

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7R	(B * !C * Y) + (!B * C * Y)	0.00008	0.00018	0.00056
	(B * !C * Y) + (!B * C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y) + (!B * C * Y)	-0.00003	-0.00003	-0.00002
	(B * !C * Y) + (!B * C * Y)	0.00078	0.00088	0.00125
	(!B * !C * Y)	0.00008	0.00018	0.00056
	(!B * !C * Y)	0.00003	0.00003	0.00003
	(!B * !C * Y)	-0.00003	-0.00003	-0.00002
	(!B * !C * Y)	0.00077	0.00087	0.00125

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7R	(B * !C * Y) + (!B * C * Y)	0.00074	0.00085	0.00127
	(B * !C * Y) + (!B * C * Y)	-0.00003	-0.00003	-0.00002
	(B * !C * Y) + (!B * C * Y)	0.00002	0.00003	0.00003
	(B * !C * Y) + (!B * C * Y)	0.00004	0.00016	0.00058
	(!B * !C * Y)	0.00073	0.00085	0.00127
	(!B * !C * Y)	-0.00003	-0.00003	-0.00002
	(!B * !C * Y)	0.00002	0.00003	0.00003
	(!B * !C * Y)	0.00005	0.00017	0.00058

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7R	(AN * C * Y)	-0.00018	-0.00018	-0.00018
	(AN * C * Y)	-0.00001	-0.00001	-0.00000
	(AN * C * Y)	0.00004	0.00005	0.00004
	(AN * C * Y)	0.00010	0.00011	0.00011
	(AN * !C * Y)	-0.00018	-0.00018	-0.00018
	(AN * !C * Y)	-0.00000	-0.00001	-0.00000
	(AN * !C * Y)	0.00006	0.00006	0.00006
	(AN * !C * Y)	0.00011	0.00011	0.00011
	(!AN * !C * Y)	-0.00021	-0.00021	-0.00021
	(!AN * !C * Y)	-0.00001	-0.00001	-0.00000
	(!AN * !C * Y)	0.00001	0.00001	0.00001
	(!AN * !C * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7R	(AN * C * Y)	0.00018	0.00018	0.00018
	(AN * C * Y)	0.00000	0.00001	0.00001
	(AN * C * Y)	-0.00004	-0.00004	-0.00004
	(AN * C * Y)	-0.00011	-0.00011	-0.00010
	(AN * !C * Y)	0.00018	0.00018	0.00018
	(AN * !C * Y)	0.00000	0.00001	0.00001
	(AN * !C * Y)	-0.00006	-0.00006	-0.00006
	(AN * !C * Y)	-0.00011	-0.00011	-0.00011
	(!AN * !C * Y)	0.00021	0.00022	0.00023
	(!AN * !C * Y)	0.00000	0.00001	0.00001
	(!AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7R	(AN * B * Y)	-0.00028	-0.00028	-0.00028
	(AN * B * Y)	-0.00001	-0.00001	-0.00000
	(AN * B * Y)	0.00002	0.00003	0.00003
	(AN * B * Y)	0.00006	0.00006	0.00007
	(!B * Y)	-0.00028	-0.00028	-0.00028
	(!B * Y)	-0.00001	-0.00001	-0.00000
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for C falling (conditional):

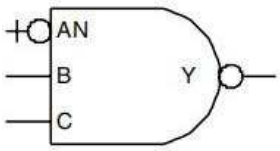
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX1P4H7R	(AN * B * Y)	0.00028	0.00028	0.00028
	(AN * B * Y)	0.00000	0.00001	0.00001
	(AN * B * Y)	-0.00003	-0.00003	-0.00002
	(AN * B * Y)	-0.00007	-0.00006	-0.00006
	(!B * Y)	0.00028	0.00028	0.00028
	(!B * Y)	0.00000	0.00001	0.00001
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	-0.00006	-0.00006	-0.00006

NAND3BX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX2H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX2H7R	0.00087	0.00098	0.00108	0.04415

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX2H7R	0.00000	0.19772	0.39657

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX2H7R	AN->Y (RR)	0.03412	0.12341	0.33132
	B->Y (FR)	0.01646	0.12605	0.50447
	C->Y (FR)	0.01513	0.12340	0.50252

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX2H7R	AN->Y (FF)	0.04937	0.19762	0.56719
	B->Y (RF)	0.02593	0.18122	0.66110
	C->Y (RF)	0.02346	0.17604	0.65253

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX2H7R	AN	0.00128	0.00140	0.00178
	AN	-0.00011	-0.00011	-0.00011
	AN	0.00015	0.00015	0.00015
	AN	0.00114	0.00125	0.00163
	B	0.00115	0.00126	0.00182
	B	-0.00014	-0.00014	-0.00013
	B	0.00010	0.00010	0.00010
	B	-0.00002	0.00008	0.00062
	C	0.00093	0.00107	0.00173
	C	-0.00014	-0.00013	-0.00013
	C	0.00000	0.00003	0.00004
	C	-0.00004	0.00008	0.00071

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX2H7R	AN	0.00104	0.00116	0.00157
	AN	0.00011	0.00011	0.00012
	AN	-0.00015	-0.00015	-0.00015
	AN	0.00121	0.00134	0.00175
	B	-0.00010	-0.00003	0.00033
	B	0.00013	0.00014	0.00014
	B	-0.00010	-0.00010	-0.00010
	B	0.00109	0.00117	0.00154
	C	-0.00006	0.00004	0.00059
	C	0.00013	0.00014	0.00014
	C	-0.00003	-0.00003	0.00000
	C	0.00094	0.00104	0.00160

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7R	(B * !C * Y) + (!B * C * Y)	0.00012	0.00021	0.00057
	(B * !C * Y) + (!B * C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y) + (!B * C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y) + (!B * C * Y)	0.00086	0.00096	0.00131
	(!B * !C * Y)	0.00011	0.00021	0.00057
	(!B * !C * Y)	0.00003	0.00003	0.00003
	(!B * !C * Y)	-0.00003	-0.00003	-0.00002
	(!B * !C * Y)	0.00085	0.00095	0.00130

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7R	(B * !C * Y) + (!B * C * Y)	0.00082	0.00093	0.00133
	(B * !C * Y) + (!B * C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y) + (!B * C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y) + (!B * C * Y)	0.00008	0.00020	0.00059
	(!B * !C * Y)	0.00082	0.00093	0.00133
	(!B * !C * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * Y)	0.00002	0.00003	0.00003
	(!B * !C * Y)	0.00009	0.00020	0.00059

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7R	(AN * C * Y)	-0.00024	-0.00023	-0.00023
	(AN * C * Y)	-0.00001	-0.00001	-0.00000
	(AN * C * Y)	0.00005	0.00005	0.00005
	(AN * C * Y)	0.00011	0.00011	0.00011
	(AN * !C * Y)	-0.00024	-0.00024	-0.00023
	(AN * !C * Y)	-0.00001	-0.00001	-0.00000
	(AN * !C * Y)	0.00007	0.00007	0.00007
	(AN * !C * Y)	0.00012	0.00012	0.00012
	(!AN * !C * Y)	-0.00028	-0.00028	-0.00028
	(!AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * Y)	0.00001	0.00001	0.00001
	(!AN * !C * Y)	0.00020	0.00020	0.00021

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7R	(AN * C * Y)	0.00023	0.00024	0.00024
	(AN * C * Y)	0.00001	0.00001	0.00001
	(AN * C * Y)	-0.00005	-0.00005	-0.00005
	(AN * C * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * Y)	0.00024	0.00024	0.00024
	(AN * !C * Y)	0.00000	0.00001	0.00001
	(AN * !C * Y)	-0.00007	-0.00007	-0.00007
	(AN * !C * Y)	-0.00012	-0.00012	-0.00012
	(!AN * !C * Y)	0.00029	0.00029	0.00031
	(!AN * !C * Y)	0.00001	0.00001	0.00001
	(!AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7R	(AN * B * Y)	-0.00033	-0.00033	-0.00032
	(AN * B * Y)	-0.00001	-0.00001	-0.00000
	(AN * B * Y)	0.00003	0.00003	0.00003
	(AN * B * Y)	0.00006	0.00007	0.00007
	(!B * Y)	-0.00033	-0.00033	-0.00033
	(!B * Y)	-0.00001	-0.00001	-0.00000
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for C falling (conditional):

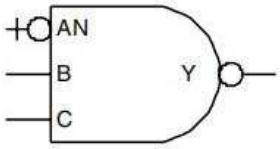
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX2H7R	(AN * B * Y)	0.00032	0.00033	0.00033
	(AN * B * Y)	0.00000	0.00001	0.00001
	(AN * B * Y)	-0.00003	-0.00003	-0.00003
	(AN * B * Y)	-0.00006	-0.00006	-0.00006
	(!B * Y)	0.00033	0.00033	0.00033
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	-0.00006	-0.00006	-0.00006

NAND3BX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX3H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX3H7R	0.00084	0.00155	0.00163	0.06899

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX3H7R	0.00000	0.25796	0.54335

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX3H7R	AN->Y (RR)	0.03812	0.13332	0.35230
	B->Y (FR)	0.01565	0.12528	0.50402
	C->Y (FR)	0.01340	0.12095	0.50076

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX3H7R	AN->Y (FF)	0.05651	0.21438	0.60589
	B->Y (RF)	0.02554	0.18456	0.67329
	C->Y (RF)	0.02018	0.17669	0.66551

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX3H7R	AN	0.00223	0.00234	0.00271
	AN	-0.00018	-0.00018	-0.00018
	AN	0.00019	0.00023	0.00024
	AN	0.00150	0.00162	0.00199
	B	0.00179	0.00196	0.00286
	B	-0.00020	-0.00020	-0.00020
	B	0.00014	0.00015	0.00015
	B	-0.00008	0.00009	0.00096
	C	0.00134	0.00157	0.00268
	C	-0.00020	-0.00020	-0.00019
	C	0.00003	0.00005	0.00005
	C	-0.00013	0.00008	0.00115

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX3H7R	AN	0.00135	0.00149	0.00186
	AN	0.00018	0.00018	0.00019
	AN	-0.00024	-0.00023	-0.00019
	AN	0.00216	0.00229	0.00266
	B	-0.00008	0.00002	0.00061
	B	0.00020	0.00020	0.00021
	B	-0.00015	-0.00015	-0.00014
	B	0.00182	0.00194	0.00255
	C	-0.00009	0.00008	0.00103
	C	0.00020	0.00020	0.00021
	C	-0.00005	-0.00005	-0.00003
	C	0.00144	0.00158	0.00255

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7R	(B * !C * Y) + (!B * C * Y)	0.00024	0.00033	0.00065
	(B * !C * Y) + (!B * C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y) + (!B * C * Y)	-0.00005	-0.00005	-0.00004
	(B * !C * Y) + (!B * C * Y)	0.00096	0.00104	0.00135
	(!B * !C * Y)	0.00023	0.00032	0.00064
	(!B * !C * Y)	0.00003	0.00003	0.00003
	(!B * !C * Y)	-0.00005	-0.00005	-0.00004
	(!B * !C * Y)	0.00094	0.00102	0.00134

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7R	(B * !C * Y) + (!B * C * Y)	0.00098	0.00108	0.00144
	(B * !C * Y) + (!B * C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y) + (!B * C * Y)	0.00004	0.00005	0.00005
	(B * !C * Y) + (!B * C * Y)	0.00028	0.00038	0.00074
	(!B * !C * Y)	0.00097	0.00107	0.00143
	(!B * !C * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * Y)	0.00004	0.00005	0.00006
	(!B * !C * Y)	0.00028	0.00038	0.00074

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7R	(AN * C * Y)	-0.00035	-0.00035	-0.00035
	(AN * C * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * Y)	0.00007	0.00007	0.00007
	(AN * C * Y)	0.00019	0.00020	0.00020
	(AN * !C * Y)	-0.00036	-0.00035	-0.00035
	(AN * !C * Y)	-0.00001	-0.00001	-0.00000
	(AN * !C * Y)	0.00010	0.00010	0.00010
	(AN * !C * Y)	0.00020	0.00020	0.00021
	(!AN * !C * Y)	-0.00034	-0.00034	-0.00034
	(!AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * Y)	0.00002	0.00002	0.00002
	(!AN * !C * Y)	0.00045	0.00045	0.00045

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7R	(AN * C * Y)	0.00035	0.00035	0.00035
	(AN * C * Y)	0.00001	0.00001	0.00001
	(AN * C * Y)	-0.00007	-0.00007	-0.00007
	(AN * C * Y)	-0.00020	-0.00019	-0.00019
	(AN * !C * Y)	0.00036	0.00036	0.00036
	(AN * !C * Y)	0.00001	0.00001	0.00001
	(AN * !C * Y)	-0.00010	-0.00010	-0.00010
	(AN * !C * Y)	-0.00021	-0.00020	-0.00020
	(!AN * !C * Y)	0.00034	0.00035	0.00038
	(!AN * !C * Y)	0.00001	0.00001	0.00001
	(!AN * !C * Y)	-0.00002	-0.00002	-0.00002
	(!AN * !C * Y)	-0.00044	-0.00042	-0.00038

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7R	(AN * B * Y)	-0.00049	-0.00049	-0.00048
	(AN * B * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * Y)	0.00004	0.00005	0.00005
	(AN * B * Y)	0.00013	0.00014	0.00014
	(!B * Y)	-0.00049	-0.00049	-0.00049
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00004	0.00005	0.00005
	(!B * Y)	0.00013	0.00014	0.00014

Passive power(pJ) for C falling (conditional):

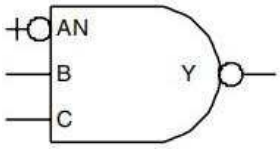
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX3H7R	(AN * B * Y)	0.00049	0.00049	0.00049
	(AN * B * Y)	0.00001	0.00001	0.00001
	(AN * B * Y)	-0.00005	-0.00005	-0.00004
	(AN * B * Y)	-0.00013	-0.00013	-0.00013
	(!B * Y)	0.00049	0.00049	0.00049
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00005	-0.00005	-0.00004
	(!B * Y)	-0.00013	-0.00013	-0.00013

NAND3BX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX4H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX4H7R	0.00099	0.00191	0.00201	0.08909

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX4H7R	0.00000	0.35127	0.72224

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX4H7R	AN->Y (RR)	0.03319	0.12533	0.33852
	B->Y (FR)	0.01515	0.12542	0.50718
	C->Y (FR)	0.01301	0.12133	0.50464

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX4H7R	AN->Y (FF)	0.04964	0.20539	0.59199
	B->Y (RF)	0.02446	0.18359	0.67462
	C->Y (RF)	0.01958	0.17610	0.66483

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX4H7R	AN	0.00281	0.00298	0.00352
	AN	-0.00024	-0.00024	-0.00023
	AN	0.00030	0.00030	0.00031
	AN	0.00185	0.00202	0.00256
	B	0.00225	0.00248	0.00360
	B	-0.00027	-0.00027	-0.00027
	B	0.00019	0.00020	0.00020
	B	-0.00009	0.00012	0.00121
	C	0.00166	0.00200	0.00339
	C	-0.00027	-0.00027	-0.00026
	C	0.00004	0.00006	0.00009
	C	-0.00017	0.00009	0.00144

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX4H7R	AN	0.00167	0.00186	0.00242
	AN	0.00023	0.00024	0.00024
	AN	-0.00031	-0.00030	-0.00030
	AN	0.00273	0.00292	0.00349
	B	-0.00011	0.00003	0.00077
	B	0.00027	0.00027	0.00027
	B	-0.00020	-0.00020	-0.00019
	B	0.00233	0.00244	0.00321
	C	-0.00010	0.00011	0.00131
	C	0.00027	0.00027	0.00027
	C	-0.00007	-0.00006	-0.00004
	C	0.00183	0.00202	0.00326

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7R	(B * !C * Y) + (!B * C * Y)	0.00032	0.00045	0.00095
	(B * !C * Y) + (!B * C * Y)	0.00004	0.00005	0.00005
	(B * !C * Y) + (!B * C * Y)	-0.00006	-0.00006	-0.00005
	(B * !C * Y) + (!B * C * Y)	0.00121	0.00134	0.00182
	(!B * !C * Y)	0.00031	0.00044	0.00094
	(!B * !C * Y)	0.00004	0.00005	0.00005
	(!B * !C * Y)	-0.00007	-0.00006	-0.00006
	(!B * !C * Y)	0.00118	0.00131	0.00180

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7R	(B * !C * Y) + (!B * C * Y)	0.00116	0.00132	0.00186
	(B * !C * Y) + (!B * C * Y)	-0.00005	-0.00005	-0.00004
	(B * !C * Y) + (!B * C * Y)	0.00005	0.00006	0.00006
	(B * !C * Y) + (!B * C * Y)	0.00030	0.00046	0.00099
	(!B * !C * Y)	0.00116	0.00131	0.00185
	(!B * !C * Y)	-0.00005	-0.00004	-0.00004
	(!B * !C * Y)	0.00006	0.00006	0.00007
	(!B * !C * Y)	0.00031	0.00046	0.00100

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7R	(AN * C * Y)	-0.00047	-0.00047	-0.00046
	(AN * C * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * Y)	0.00010	0.00010	0.00010
	(AN * C * Y)	0.00019	0.00019	0.00019
	(AN * !C * Y)	-0.00047	-0.00047	-0.00046
	(AN * !C * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * Y)	0.00013	0.00013	0.00013
	(AN * !C * Y)	0.00020	0.00020	0.00020
	(!AN * !C * Y)	-0.00047	-0.00047	-0.00046
	(!AN * !C * Y)	-0.00002	-0.00001	-0.00001
	(!AN * !C * Y)	0.00002	0.00002	0.00003
	(!AN * !C * Y)	0.00048	0.00049	0.00049

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7R	(AN * C * Y)	0.00047	0.00047	0.00047
	(AN * C * Y)	0.00001	0.00001	0.00001
	(AN * C * Y)	-0.00010	-0.00010	-0.00009
	(AN * C * Y)	-0.00019	-0.00019	-0.00019
	(AN * !C * Y)	0.00047	0.00048	0.00048
	(AN * !C * Y)	0.00001	0.00001	0.00001
	(AN * !C * Y)	-0.00013	-0.00013	-0.00013
	(AN * !C * Y)	-0.00020	-0.00020	-0.00020
	(!AN * !C * Y)	0.00047	0.00049	0.00052
	(!AN * !C * Y)	0.00001	0.00001	0.00002
	(!AN * !C * Y)	-0.00003	-0.00002	-0.00002
	(!AN * !C * Y)	-0.00048	-0.00045	-0.00040

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7R	(AN * B * Y)	-0.00063	-0.00062	-0.00062
	(AN * B * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * Y)	0.00006	0.00006	0.00007
	(AN * B * Y)	0.00013	0.00014	0.00014
	(!B * Y)	-0.00063	-0.00063	-0.00062
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00006	0.00007	0.00008
	(!B * Y)	0.00013	0.00013	0.00013

Passive power(pJ) for C falling (conditional):

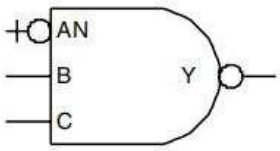
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX4H7R	(AN * B * Y)	0.00062	0.00063	0.00063
	(AN * B * Y)	0.00001	0.00001	0.00001
	(AN * B * Y)	-0.00006	-0.00006	-0.00006
	(AN * B * Y)	-0.00014	-0.00013	-0.00013
	(!B * Y)	0.00063	0.00063	0.00063
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00006	-0.00006	-0.00006
	(!B * Y)	-0.00013	-0.00013	-0.00013

NAND3BX6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3B cell provides the logical NAND of one inverted input (AN) and two non-inverted inputs (B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
AN	B	C	Y
x	0	x	1
x	1	0	1
0	1	1	0
1	1	1	1

Footprint

Cell Name	Area
NAND3BX6H7R	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NAND3BX6H7R	0.00112	0.00281	0.00294	0.13242

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3BX6H7R	0.00000	0.48124	1.01307

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX6H7R	AN->Y (RR)	0.03509	0.12958	0.34739
	B->Y (FR)	0.01434	0.12356	0.50460
	C->Y (FR)	0.01237	0.11981	0.50180

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3BX6H7R	AN->Y (FF)	0.05121	0.20878	0.59805
	B->Y (RF)	0.02277	0.18040	0.66901
	C->Y (RF)	0.01856	0.17381	0.66199

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX6H7R	AN	0.00413	0.00432	0.00497
	AN	-0.00037	-0.00036	-0.00033
	AN	0.00046	0.00046	0.00047
	AN	0.00245	0.00266	0.00331
	B	0.00328	0.00361	0.00534
	B	-0.00041	-0.00040	-0.00040
	B	0.00029	0.00030	0.00030
	B	-0.00021	0.00011	0.00178
	C	0.00260	0.00296	0.00510
	C	-0.00041	-0.00040	-0.00038
	C	0.00000	0.00009	0.00012
	C	-0.00024	0.00015	0.00222

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3BX6H7R	AN	0.00228	0.00252	0.00313
	AN	0.00036	0.00036	0.00037
	AN	-0.00047	-0.00046	-0.00046
	AN	0.00408	0.00432	0.00494
	B	-0.00016	0.00005	0.00125
	B	0.00040	0.00040	0.00041
	B	-0.00030	-0.00030	-0.00029
	B	0.00344	0.00363	0.00486
	C	-0.00014	0.00017	0.00202
	C	0.00040	0.00040	0.00041
	C	-0.00010	-0.00009	0.00000
	C	0.00271	0.00300	0.00489

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7R	(B * !C * Y) + (!B * C * Y)	0.00052	0.00066	0.00120
	(B * !C * Y) + (!B * C * Y)	0.00006	0.00006	0.00006
	(B * !C * Y) + (!B * C * Y)	-0.00009	-0.00009	-0.00008
	(B * !C * Y) + (!B * C * Y)	0.00158	0.00173	0.00224
	(!B * !C * Y)	0.00051	0.00065	0.00120
	(!B * !C * Y)	0.00006	0.00006	0.00006
	(!B * !C * Y)	-0.00010	-0.00009	-0.00009
	(!B * !C * Y)	0.00154	0.00169	0.00221

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7R	(B * !C * Y) + (!B * C * Y)	0.00155	0.00171	0.00230
	(B * !C * Y) + (!B * C * Y)	-0.00006	-0.00006	-0.00006
	(B * !C * Y) + (!B * C * Y)	0.00008	0.00009	0.00009
	(B * !C * Y) + (!B * C * Y)	0.00052	0.00068	0.00127
	(!B * !C * Y)	0.00153	0.00169	0.00228
	(!B * !C * Y)	-0.00006	-0.00006	-0.00005
	(!B * !C * Y)	0.00009	0.00009	0.00010
	(!B * !C * Y)	0.00053	0.00069	0.00128

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7R	(AN * C * Y)	-0.00069	-0.00069	-0.00068
	(AN * C * Y)	-0.00002	-0.00002	-0.00001
	(AN * C * Y)	0.00015	0.00015	0.00016
	(AN * C * Y)	0.00028	0.00028	0.00029
	(AN * !C * Y)	-0.00070	-0.00069	-0.00069
	(AN * !C * Y)	-0.00002	-0.00002	-0.00001
	(AN * !C * Y)	0.00020	0.00020	0.00021
	(AN * !C * Y)	0.00029	0.00029	0.00029
	(!AN * !C * Y)	-0.00070	-0.00070	-0.00070
	(!AN * !C * Y)	-0.00002	-0.00002	-0.00001
	(!AN * !C * Y)	0.00003	0.00003	0.00004
	(!AN * !C * Y)	0.00073	0.00074	0.00074

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7R	(AN * C * Y)	0.00068	0.00069	0.00069
	(AN * C * Y)	0.00002	0.00002	0.00002
	(AN * C * Y)	-0.00015	-0.00015	-0.00015
	(AN * C * Y)	-0.00028	-0.00028	-0.00028
	(AN * !C * Y)	0.00069	0.00070	0.00071
	(AN * !C * Y)	0.00002	0.00002	0.00002
	(AN * !C * Y)	-0.00021	-0.00020	-0.00020
	(AN * !C * Y)	-0.00029	-0.00029	-0.00029
	(!AN * !C * Y)	0.00071	0.00073	0.00078
	(!AN * !C * Y)	0.00002	0.00002	0.00002
	(!AN * !C * Y)	-0.00004	-0.00003	-0.00003
	(!AN * !C * Y)	-0.00071	-0.00067	-0.00060

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7R	(AN * B * Y)	-0.00092	-0.00091	-0.00090
	(AN * B * Y)	-0.00002	-0.00002	-0.00001
	(AN * B * Y)	0.00009	0.00010	0.00011
	(AN * B * Y)	0.00017	0.00019	0.00020
	(!B * Y)	-0.00092	-0.00092	-0.00092
	(!B * Y)	-0.00002	-0.00002	-0.00001
	(!B * Y)	0.00010	0.00010	0.00011
	(!B * Y)	0.00017	0.00018	0.00018

Passive power(pJ) for C falling (conditional):

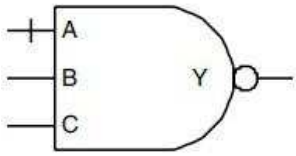
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3BX6H7R	(AN * B * Y)	0.00091	0.00092	0.00092
	(AN * B * Y)	0.00002	0.00002	0.00002
	(AN * B * Y)	-0.00009	-0.00009	-0.00009
	(AN * B * Y)	-0.00019	-0.00018	-0.00017
	(!B * Y)	0.00092	0.00092	0.00093
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	-0.00010	-0.00010	-0.00010
	(!B * Y)	-0.00018	-0.00018	-0.00017

NAND3X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X0P5H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X0P5H7R	0.00062	0.00068	0.00075	0.02343

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X0P5H7R	0.00000	0.06001	0.14622

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X0P5H7R	A->Y (FR)	0.02107	0.12929	0.49239
	B->Y (FR)	0.02043	0.12723	0.49061
	C->Y (FR)	0.01904	0.12464	0.48878

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X0P5H7R	A->Y (RF)	0.03373	0.17855	0.60826
	B->Y (RF)	0.03334	0.18467	0.64833
	C->Y (RF)	0.03075	0.18026	0.64368

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X0P5H7R	A	0.00082	0.00089	0.00123
	A	-0.00007	-0.00007	-0.00007
	A	0.00009	0.00009	0.00009
	A	-0.00006	-0.00001	0.00031
	B	0.00073	0.00082	0.00114
	B	-0.00007	-0.00007	-0.00007
	B	0.00005	0.00005	0.00005
	B	-0.00000	0.00006	0.00037
	C	0.00067	0.00073	0.00110
	C	-0.00007	-0.00007	-0.00006
	C	0.00001	0.00002	0.00006
	C	-0.00005	0.00003	0.00038

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X0P5H7R	A	-0.00007	-0.00004	0.00014
	A	0.00007	0.00007	0.00007
	A	-0.00009	-0.00009	-0.00009
	A	0.00086	0.00089	0.00107
	B	-0.00008	-0.00004	0.00015
	B	0.00007	0.00007	0.00007
	B	-0.00005	-0.00005	-0.00005
	B	0.00070	0.00074	0.00094
	C	-0.00008	-0.00003	0.00027
	C	0.00007	0.00007	0.00007
	C	-0.00002	-0.00002	-0.00001
	C	0.00063	0.00068	0.00098

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7R	(B * !C * Y)	-0.00012	-0.00012	-0.00012
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	0.00020	0.00020	0.00020
	(!B * C * Y)	-0.00012	-0.00012	-0.00012
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	0.00020	0.00021	0.00021
	(!B * !C * Y)	-0.00012	-0.00012	-0.00012
	(!B * !C * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * Y)	0.00001	0.00001	0.00001
	(!B * !C * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7R	(B * !C * Y)	0.00012	0.00012	0.00012
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	-0.00020	-0.00019	-0.00018
	(!B * C * Y)	0.00012	0.00012	0.00012
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	-0.00020	-0.00020	-0.00019
	(!B * !C * Y)	0.00012	0.00012	0.00012
	(!B * !C * Y)	0.00000	0.00000	0.00000
	(!B * !C * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * Y)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7R	(A * !C * Y)	-0.00015	-0.00015	-0.00015
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	0.00015	0.00015	0.00015
	(!A * C * Y)	-0.00015	-0.00015	-0.00015
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	0.00003	0.00003	0.00003
	(!A * C * Y)	0.00006	0.00006	0.00006
	(!A * !C * Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * Y)	0.00004	0.00004	0.00004
	(!A * !C * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7R	(A * !C * Y)	0.00015	0.00015	0.00016
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	-0.00014	-0.00014	-0.00013
	(!A * C * Y)	0.00015	0.00015	0.00015
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	-0.00003	-0.00003	-0.00003
	(!A * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * Y)	0.00015	0.00015	0.00015
	(!A * !C * Y)	0.00000	0.00000	0.00000
	(!A * !C * Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7R	(!B * Y)	-0.00020	-0.00020	-0.00020
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00008	0.00008	0.00008
	(!A * B * Y)	-0.00020	-0.00020	-0.00020
	(!A * B * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * Y)	0.00002	0.00002	0.00002
	(!A * B * Y)	0.00007	0.00008	0.00008

Passive power(pJ) for C falling (conditional):

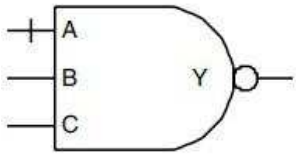
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P5H7R	(!B * Y)	0.00020	0.00020	0.00020
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00008	-0.00008	-0.00008
	(!A * B * Y)	0.00020	0.00020	0.00020
	(!A * B * Y)	0.00000	0.00000	0.00001
	(!A * B * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * Y)	-0.00008	-0.00008	-0.00007

NAND3X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X0P7H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X0P7H7R	0.00065	0.00070	0.00078	0.02671

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X0P7H7R	0.00000	0.06757	0.16495

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X0P7H7R	A->Y (FR)	0.01957	0.12803	0.49427
	B->Y (FR)	0.01886	0.12585	0.49217
	C->Y (FR)	0.01754	0.12326	0.48995

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X0P7H7R	A->Y (RF)	0.03112	0.17647	0.60890
	B->Y (RF)	0.03048	0.18222	0.64824
	C->Y (RF)	0.02791	0.17757	0.64363

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X0P7H7R	A	0.00085	0.00095	0.00132
	A	-0.00008	-0.00008	-0.00007
	A	0.00010	0.00010	0.00010
	A	-0.00008	-0.00002	0.00034
	B	0.00077	0.00086	0.00122
	B	-0.00008	-0.00008	-0.00008
	B	0.00005	0.00006	0.00006
	B	-0.00002	0.00005	0.00040
	C	0.00069	0.00077	0.00118
	C	-0.00008	-0.00008	-0.00008
	C	0.00000	0.00002	0.00007
	C	-0.00005	0.00003	0.00043

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X0P7H7R	A	-0.00008	-0.00005	0.00016
	A	0.00008	0.00008	0.00008
	A	-0.00010	-0.00010	-0.00010
	A	0.00089	0.00095	0.00117
	B	-0.00009	-0.00005	0.00018
	B	0.00008	0.00008	0.00008
	B	-0.00006	-0.00006	-0.00005
	B	0.00074	0.00078	0.00102
	C	-0.00009	-0.00003	0.00031
	C	0.00008	0.00008	0.00008
	C	-0.00002	-0.00002	-0.00000
	C	0.00064	0.00071	0.00106

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7R	(B * !C * Y)	-0.00013	-0.00013	-0.00013
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	0.00021	0.00021	0.00021
	(!B * C * Y)	-0.00013	-0.00013	-0.00013
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	0.00021	0.00021	0.00022
	(!B * !C * Y)	-0.00013	-0.00013	-0.00013
	(!B * !C * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * Y)	0.00001	0.00001	0.00001
	(!B * !C * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7R	(B * !C * Y)	0.00013	0.00013	0.00013
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	-0.00021	-0.00020	-0.00019
	(!B * C * Y)	0.00013	0.00013	0.00013
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	-0.00021	-0.00020	-0.00020
	(!B * !C * Y)	0.00013	0.00013	0.00013
	(!B * !C * Y)	0.00000	0.00000	0.00000
	(!B * !C * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * Y)	-0.00021	-0.00020	-0.00020

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7R	(A * !C * Y)	-0.00016	-0.00015	-0.00015
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	0.00015	0.00015	0.00015
	(!A * C * Y)	-0.00016	-0.00015	-0.00015
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	0.00003	0.00003	0.00003
	(!A * C * Y)	0.00005	0.00005	0.00005
	(!A * !C * Y)	-0.00016	-0.00015	-0.00015
	(!A * !C * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * Y)	0.00004	0.00004	0.00004
	(!A * !C * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7R	(A * !C * Y)	0.00016	0.00016	0.00017
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	-0.00015	-0.00014	-0.00013
	(!A * C * Y)	0.00015	0.00016	0.00016
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	-0.00003	-0.00003	-0.00003
	(!A * C * Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * Y)	0.00016	0.00016	0.00016
	(!A * !C * Y)	0.00000	0.00000	0.00000
	(!A * !C * Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7R	(!B * Y)	-0.00022	-0.00022	-0.00021
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	0.00007	0.00007	0.00007
	(!A * B * Y)	-0.00022	-0.00022	-0.00022
	(!A * B * Y)	-0.00001	-0.00000	-0.00000
	(!A * B * Y)	0.00002	0.00002	0.00002
	(!A * B * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C falling (conditional):

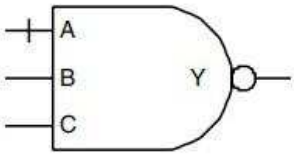
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X0P7H7R	(!B * Y)	0.00022	0.00022	0.00022
	(!B * Y)	0.00000	0.00000	0.00000
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	-0.00007	-0.00007	-0.00007
	(!A * B * Y)	0.00022	0.00022	0.00022
	(!A * B * Y)	0.00000	0.00000	0.00001
	(!A * B * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * Y)	-0.00007	-0.00007	-0.00007

NAND3X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X1H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X1H7R	0.00070	0.00074	0.00086	0.03143

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X1H7R	0.00000	0.07869	0.19067

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X1H7R	A->Y (FR)	0.01777	0.12516	0.49144
	B->Y (FR)	0.01692	0.12280	0.48923
	C->Y (FR)	0.01579	0.12033	0.48734

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X1H7R	A->Y (RF)	0.02842	0.17464	0.61171
	B->Y (RF)	0.02741	0.17988	0.65075
	C->Y (RF)	0.02518	0.17523	0.64301

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X1H7R	A	0.00093	0.00104	0.00147
	A	-0.00010	-0.00010	-0.00009
	A	0.00012	0.00012	0.00012
	A	-0.00011	-0.00004	0.00038
	B	0.00082	0.00093	0.00135
	B	-0.00010	-0.00010	-0.00010
	B	0.00007	0.00007	0.00007
	B	-0.00005	0.00002	0.00044
	C	0.00072	0.00083	0.00132
	C	-0.00010	-0.00010	-0.00009
	C	0.00001	0.00002	0.00003
	C	-0.00007	0.00002	0.00049

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X1H7R	A	-0.00010	-0.00005	0.00020
	A	0.00009	0.00010	0.00010
	A	-0.00012	-0.00012	-0.00012
	A	0.00101	0.00106	0.00131
	B	-0.00010	-0.00005	0.00023
	B	0.00010	0.00010	0.00010
	B	-0.00007	-0.00007	-0.00007
	B	0.00080	0.00087	0.00116
	C	-0.00011	-0.00003	0.00038
	C	0.00010	0.00010	0.00010
	C	-0.00002	-0.00002	-0.00001
	C	0.00070	0.00078	0.00120

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7R	(B * !C * Y)	-0.00014	-0.00014	-0.00014
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	0.00022	0.00022	0.00022
	(!B * C * Y)	-0.00014	-0.00014	-0.00014
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	0.00023	0.00023	0.00023
	(!B * !C * Y)	-0.00014	-0.00014	-0.00014
	(!B * !C * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * Y)	0.00001	0.00001	0.00001
	(!B * !C * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7R	(B * !C * Y)	0.00014	0.00015	0.00015
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	-0.00022	-0.00021	-0.00020
	(!B * C * Y)	0.00014	0.00015	0.00015
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	-0.00023	-0.00022	-0.00021
	(!B * !C * Y)	0.00014	0.00014	0.00014
	(!B * !C * Y)	0.00000	0.00000	0.00000
	(!B * !C * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7R	(A * !C * Y)	-0.00016	-0.00016	-0.00016
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	0.00018	0.00018	0.00018
	(!A * C * Y)	-0.00016	-0.00016	-0.00016
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	0.00004	0.00004	0.00004
	(!A * C * Y)	0.00006	0.00006	0.00006
	(!A * !C * Y)	-0.00016	-0.00016	-0.00016
	(!A * !C * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * Y)	0.00005	0.00005	0.00005
	(!A * !C * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7R	(A * !C * Y)	0.00016	0.00017	0.00018
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	-0.00018	-0.00017	-0.00015
	(!A * C * Y)	0.00016	0.00016	0.00016
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	-0.00004	-0.00004	-0.00004
	(!A * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * Y)	0.00016	0.00016	0.00017
	(!A * !C * Y)	0.00000	0.00000	0.00000
	(!A * !C * Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7R	(!B * Y)	-0.00025	-0.00025	-0.00025
	(!B * Y)	-0.00000	-0.00000	-0.00000
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	0.00007	0.00007	0.00007
	(!A * B * Y)	-0.00025	-0.00025	-0.00024
	(!A * B * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * Y)	0.00002	0.00002	0.00002
	(!A * B * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C falling (conditional):

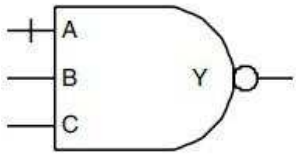
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1H7R	(!B * Y)	0.00025	0.00025	0.00025
	(!B * Y)	0.00000	0.00001	0.00001
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	-0.00007	-0.00007	-0.00007
	(!A * B * Y)	0.00024	0.00025	0.00025
	(!A * B * Y)	0.00000	0.00000	0.00001
	(!A * B * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * Y)	-0.00007	-0.00007	-0.00007

NAND3X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X1P4H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X1P4H7R	0.00078	0.00082	0.00092	0.03609

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X1P4H7R	0.00000	0.08932	0.21618

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X1P4H7R	A->Y (FR)	0.01681	0.12448	0.49265
	B->Y (FR)	0.01594	0.12219	0.49194
	C->Y (FR)	0.01466	0.11949	0.48948

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X1P4H7R	A->Y (RF)	0.02657	0.17298	0.61225
	B->Y (RF)	0.02561	0.17820	0.65084
	C->Y (RF)	0.02294	0.17301	0.64370

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X1P4H7R	A	0.00099	0.00113	0.00162
	A	-0.00011	-0.00011	-0.00011
	A	0.00014	0.00014	0.00014
	A	-0.00014	-0.00006	0.00042
	B	0.00090	0.00101	0.00149
	B	-0.00011	-0.00011	-0.00011
	B	0.00008	0.00008	0.00010
	B	-0.00010	0.00001	0.00048
	C	0.00076	0.00088	0.00146
	C	-0.00011	-0.00011	-0.00011
	C	0.00000	0.00003	0.00003
	C	-0.00012	-0.00000	0.00055

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X1P4H7R	A	-0.00011	-0.00006	0.00023
	A	0.00011	0.00011	0.00011
	A	-0.00014	-0.00014	-0.00014
	A	0.00112	0.00117	0.00146
	B	-0.00012	-0.00006	0.00026
	B	0.00011	0.00011	0.00011
	B	-0.00009	-0.00008	-0.00008
	B	0.00090	0.00096	0.00129
	C	-0.00012	-0.00004	0.00045
	C	0.00011	0.00011	0.00011
	C	-0.00003	-0.00003	0.00000
	C	0.00076	0.00085	0.00135

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7R	(B * !C * Y)	-0.00017	-0.00016	-0.00016
	(B * !C * Y)	-0.00000	-0.00001	-0.00000
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	0.00023	0.00023	0.00023
	(!B * C * Y)	-0.00016	-0.00016	-0.00016
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	0.00024	0.00024	0.00024
	(!B * !C * Y)	-0.00017	-0.00016	-0.00016
	(!B * !C * Y)	-0.00000	-0.00001	-0.00000
	(!B * !C * Y)	0.00001	0.00001	0.00001
	(!B * !C * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7R	(B * !C * Y)	0.00017	0.00017	0.00017
	(B * !C * Y)	0.00000	0.00001	0.00001
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	-0.00023	-0.00022	-0.00020
	(!B * C * Y)	0.00016	0.00017	0.00017
	(!B * C * Y)	0.00000	0.00001	0.00001
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	-0.00023	-0.00023	-0.00021
	(!B * !C * Y)	0.00016	0.00016	0.00017
	(!B * !C * Y)	0.00000	0.00001	0.00001
	(!B * !C * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7R	(A * !C * Y)	-0.00019	-0.00019	-0.00019
	(A * !C * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	0.00018	0.00018	0.00018
	(!A * C * Y)	-0.00019	-0.00019	-0.00019
	(!A * C * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * Y)	0.00004	0.00004	0.00004
	(!A * C * Y)	0.00005	0.00006	0.00005
	(!A * !C * Y)	-0.00019	-0.00019	-0.00018
	(!A * !C * Y)	-0.00001	-0.00001	-0.00000
	(!A * !C * Y)	0.00006	0.00006	0.00006
	(!A * !C * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7R	(A * !C * Y)	0.00019	0.00019	0.00020
	(A * !C * Y)	0.00000	0.00001	0.00001
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	-0.00018	-0.00017	-0.00015
	(!A * C * Y)	0.00019	0.00019	0.00019
	(!A * C * Y)	0.00000	0.00001	0.00001
	(!A * C * Y)	-0.00004	-0.00004	-0.00004
	(!A * C * Y)	-0.00005	-0.00006	-0.00005
	(!A * !C * Y)	0.00019	0.00019	0.00019
	(!A * !C * Y)	0.00000	0.00001	0.00001
	(!A * !C * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7R	(!B * Y)	-0.00027	-0.00027	-0.00027
	(!B * Y)	-0.00001	-0.00001	-0.00000
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	0.00007	0.00007	0.00007
	(!A * B * Y)	-0.00027	-0.00027	-0.00027
	(!A * B * Y)	-0.00001	-0.00001	-0.00000
	(!A * B * Y)	0.00003	0.00003	0.00003
	(!A * B * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C falling (conditional):

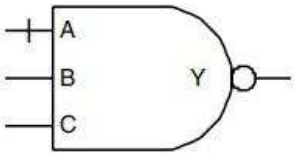
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X1P4H7R	(!B * Y)	0.00027	0.00027	0.00027
	(!B * Y)	0.00000	0.00001	0.00001
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	-0.00007	-0.00007	-0.00007
	(!A * B * Y)	0.00027	0.00027	0.00027
	(!A * B * Y)	0.00000	0.00001	0.00001
	(!A * B * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * Y)	-0.00007	-0.00007	-0.00007

NAND3X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X2H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X2H7R	0.00136	0.00131	0.00139	0.04643

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X2H7R	0.00000	0.12001	0.29244

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X2H7R	A->Y (FR)	0.01970	0.12826	0.49283
	B->Y (FR)	0.01820	0.12460	0.48969
	C->Y (FR)	0.01554	0.11974	0.48607

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X2H7R	A->Y (RF)	0.03247	0.17860	0.61350
	B->Y (RF)	0.02991	0.18128	0.64916
	C->Y (RF)	0.02381	0.17322	0.64097

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X2H7R	A	0.00186	0.00200	0.00265
	A	-0.00014	-0.00014	-0.00014
	A	0.00017	0.00017	0.00018
	A	-0.00011	0.00001	0.00064
	B	0.00157	0.00170	0.00236
	B	-0.00014	-0.00014	-0.00010
	B	0.00010	0.00011	0.00011
	B	-0.00008	0.00005	0.00068
	C	0.00122	0.00138	0.00217
	C	-0.00014	-0.00014	-0.00013
	C	0.00000	0.00003	0.00006
	C	-0.00017	-0.00002	0.00074

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X2H7R	A	-0.00016	-0.00010	0.00022
	A	0.00014	0.00014	0.00014
	A	-0.00018	-0.00017	-0.00017
	A	0.00193	0.00199	0.00232
	B	-0.00016	-0.00009	0.00032
	B	0.00014	0.00014	0.00014
	B	-0.00011	-0.00011	-0.00010
	B	0.00155	0.00162	0.00203
	C	-0.00017	-0.00005	0.00062
	C	0.00014	0.00014	0.00014
	C	-0.00003	-0.00003	0.00000
	C	0.00124	0.00135	0.00204

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7R	(B * !C * Y)	-0.00026	-0.00026	-0.00026
	(B * !C * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y)	0.00040	0.00040	0.00040
	(!B * C * Y)	-0.00026	-0.00026	-0.00026
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	0.00041	0.00041	0.00042
	(!B * !C * Y)	-0.00026	-0.00026	-0.00026
	(!B * !C * Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	0.00040	0.00040	0.00040

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7R	(B * !C * Y)	0.00026	0.00027	0.00027
	(B * !C * Y)	0.00000	0.00001	0.00001
	(B * !C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y)	-0.00040	-0.00038	-0.00034
	(!B * C * Y)	0.00026	0.00026	0.00026
	(!B * C * Y)	0.00000	0.00001	0.00001
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	-0.00041	-0.00039	-0.00036
	(!B * !C * Y)	0.00026	0.00026	0.00026
	(!B * !C * Y)	0.00000	0.00001	0.00001
	(!B * !C * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * Y)	-0.00040	-0.00039	-0.00036

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7R	(A * !C * Y)	-0.00027	-0.00027	-0.00026
	(A * !C * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * Y)	0.00001	0.00001	0.00002
	(A * !C * Y)	0.00039	0.00040	0.00040
	(!A * C * Y)	-0.00028	-0.00028	-0.00028
	(!A * C * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * Y)	0.00005	0.00005	0.00005
	(!A * C * Y)	0.00015	0.00015	0.00015
	(!A * !C * Y)	-0.00028	-0.00028	-0.00028
	(!A * !C * Y)	-0.00001	-0.00001	-0.00000
	(!A * !C * Y)	0.00007	0.00007	0.00007
	(!A * !C * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7R	(A * !C * Y)	0.00027	0.00028	0.00030
	(A * !C * Y)	0.00000	0.00001	0.00001
	(A * !C * Y)	-0.00002	-0.00001	-0.00001
	(A * !C * Y)	-0.00039	-0.00037	-0.00033
	(!A * C * Y)	0.00028	0.00028	0.00028
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00005	-0.00005	-0.00005
	(!A * C * Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * Y)	0.00029	0.00029	0.00029
	(!A * !C * Y)	0.00000	0.00001	0.00001
	(!A * !C * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * Y)	-0.00016	-0.00016	-0.00016

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7R	(!B * Y)	-0.00040	-0.00040	-0.00040
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00003	0.00003	0.00003
	(!B * Y)	0.00018	0.00018	0.00018
	(!A * B * Y)	-0.00040	-0.00040	-0.00040
	(!A * B * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * Y)	0.00003	0.00003	0.00003
	(!A * B * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for C falling (conditional):

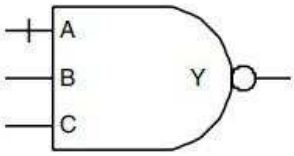
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X2H7R	(!B * Y)	0.00040	0.00040	0.00040
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00003	-0.00003	-0.00003
	(!B * Y)	-0.00018	-0.00017	-0.00017
	(!A * B * Y)	0.00040	0.00040	0.00040
	(!A * B * Y)	0.00001	0.00001	0.00001
	(!A * B * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * Y)	-0.00016	-0.00016	-0.00016

NAND3X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X3H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X3H7R	0.00156	0.00157	0.00163	0.06585

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X3H7R	0.00000	0.16581	0.40318

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X3H7R	A->Y (FR)	0.01670	0.12482	0.49341
	B->Y (FR)	0.01554	0.12163	0.49110
	C->Y (FR)	0.01341	0.11753	0.48793

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X3H7R	A->Y (RF)	0.02701	0.17381	0.61352
	B->Y (RF)	0.02509	0.17724	0.65082
	C->Y (RF)	0.02016	0.17027	0.64255

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X3H7R	A	0.00217	0.00240	0.00329
	A	-0.00020	-0.00020	-0.00020
	A	0.00025	0.00025	0.00025
	A	-0.00017	-0.00002	0.00085
	B	0.00188	0.00206	0.00296
	B	-0.00020	-0.00020	-0.00019
	B	0.00011	0.00015	0.00022
	B	-0.00017	0.00002	0.00089
	C	0.00151	0.00170	0.00280
	C	-0.00020	-0.00020	-0.00018
	C	0.00001	0.00005	0.00008
	C	-0.00020	0.00001	0.00108

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X3H7R	A	-0.00022	-0.00013	0.00037
	A	0.00020	0.00020	0.00021
	A	-0.00025	-0.00025	-0.00025
	A	0.00232	0.00240	0.00291
	B	-0.00022	-0.00012	0.00049
	B	0.00020	0.00020	0.00021
	B	-0.00016	-0.00015	-0.00011
	B	0.00184	0.00197	0.00259
	C	-0.00023	-0.00006	0.00089
	C	0.00020	0.00020	0.00021
	C	-0.00005	-0.00004	-0.00001
	C	0.00146	0.00163	0.00261

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7R	(B * !C * Y)	-0.00033	-0.00033	-0.00033
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y)	0.00043	0.00043	0.00043
	(!B * C * Y)	-0.00033	-0.00033	-0.00033
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	0.00044	0.00045	0.00045
	(!B * !C * Y)	-0.00034	-0.00033	-0.00033
	(!B * !C * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * Y)	0.00003	0.00003	0.00003
	(!B * !C * Y)	0.00043	0.00043	0.00043

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7R	(B * !C * Y)	0.00033	0.00034	0.00034
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y)	-0.00043	-0.00040	-0.00036
	(!B * C * Y)	0.00033	0.00034	0.00034
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	-0.00044	-0.00041	-0.00038
	(!B * !C * Y)	0.00033	0.00033	0.00034
	(!B * !C * Y)	0.00001	0.00001	0.00001
	(!B * !C * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * Y)	-0.00043	-0.00041	-0.00038

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7R	(A * !C * Y)	-0.00035	-0.00035	-0.00035
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	0.00002	0.00002	0.00002
	(A * !C * Y)	0.00045	0.00045	0.00046
	(!A * C * Y)	-0.00037	-0.00037	-0.00037
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	0.00007	0.00007	0.00008
	(!A * C * Y)	0.00014	0.00014	0.00015
	(!A * !C * Y)	-0.00037	-0.00037	-0.00037
	(!A * !C * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * Y)	0.00010	0.00010	0.00010
	(!A * !C * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7R	(A * !C * Y)	0.00035	0.00036	0.00039
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * Y)	-0.00044	-0.00042	-0.00038
	(!A * C * Y)	0.00037	0.00037	0.00037
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00007	-0.00007	-0.00007
	(!A * C * Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * Y)	0.00038	0.00038	0.00038
	(!A * !C * Y)	0.00001	0.00001	0.00001
	(!A * !C * Y)	-0.00010	-0.00010	-0.00010
	(!A * !C * Y)	-0.00015	-0.00015	-0.00015

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7R	(!B * Y)	-0.00050	-0.00049	-0.00049
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00005	0.00005	0.00005
	(!B * Y)	0.00016	0.00016	0.00016
	(!A * B * Y)	-0.00050	-0.00049	-0.00049
	(!A * B * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * Y)	0.00005	0.00005	0.00005
	(!A * B * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for C falling (conditional):

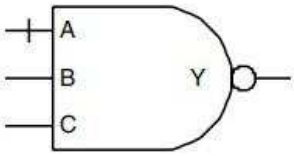
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X3H7R	(!B * Y)	0.00049	0.00050	0.00050
	(!B * Y)	0.00001	0.00001	0.00001
	(!B * Y)	-0.00005	-0.00005	-0.00004
	(!B * Y)	-0.00016	-0.00016	-0.00016
	(!A * B * Y)	0.00049	0.00050	0.00050
	(!A * B * Y)	0.00001	0.00001	0.00001
	(!A * B * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * Y)	-0.00015	-0.00015	-0.00015

NAND3X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X4H7R	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X4H7R	0.00249	0.00251	0.00281	0.09225

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X4H7R	0.00000	0.24002	0.58488

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X4H7R	A->Y (FR)	0.01833	0.12620	0.49023
	B->Y (FR)	0.01705	0.12278	0.48834
	C->Y (FR)	0.01498	0.11874	0.48529

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X4H7R	A->Y (RF)	0.03005	0.17594	0.61114
	B->Y (RF)	0.02789	0.17924	0.64826
	C->Y (RF)	0.02300	0.17264	0.64249

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X4H7R	A	0.00366	0.00400	0.00534
	A	-0.00028	-0.00028	-0.00025
	A	0.00035	0.00035	0.00035
	A	-0.00008	0.00015	0.00145
	B	0.00312	0.00347	0.00482
	B	-0.00028	-0.00028	-0.00027
	B	0.00021	0.00021	0.00021
	B	-0.00004	0.00021	0.00152
	C	0.00267	0.00297	0.00456
	C	-0.00028	-0.00027	-0.00025
	C	0.00002	0.00006	0.00012
	C	-0.00011	0.00021	0.00175

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X4H7R	A	-0.00032	-0.00018	0.00053
	A	0.00027	0.00028	0.00028
	A	-0.00035	-0.00035	-0.00035
	A	0.00373	0.00386	0.00459
	B	-0.00032	-0.00016	0.00072
	B	0.00027	0.00028	0.00028
	B	-0.00021	-0.00021	-0.00021
	B	0.00301	0.00318	0.00408
	C	-0.00036	-0.00010	0.00126
	C	0.00027	0.00028	0.00028
	C	-0.00006	-0.00006	-0.00002
	C	0.00243	0.00265	0.00406

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7R	(B * !C * Y)	-0.00051	-0.00050	-0.00050
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00004	0.00004	0.00004
	(B * !C * Y)	0.00072	0.00073	0.00073
	(!B * C * Y)	-0.00050	-0.00050	-0.00049
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00003	0.00003	0.00003
	(!B * C * Y)	0.00075	0.00076	0.00076
	(!B * !C * Y)	-0.00050	-0.00050	-0.00049
	(!B * !C * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * Y)	0.00004	0.00004	0.00004
	(!B * !C * Y)	0.00072	0.00073	0.00073

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7R	(B * !C * Y)	0.00051	0.00051	0.00052
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00004	-0.00004	-0.00004
	(B * !C * Y)	-0.00072	-0.00068	-0.00061
	(!B * C * Y)	0.00050	0.00051	0.00051
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00003	-0.00003	-0.00003
	(!B * C * Y)	-0.00074	-0.00070	-0.00065
	(!B * !C * Y)	0.00050	0.00050	0.00051
	(!B * !C * Y)	0.00001	0.00001	0.00001
	(!B * !C * Y)	-0.00004	-0.00004	-0.00004
	(!B * !C * Y)	-0.00073	-0.00070	-0.00066

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7R	(A * !C * Y)	-0.00051	-0.00051	-0.00051
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	0.00003	0.00003	0.00003
	(A * !C * Y)	0.00075	0.00076	0.00076
	(!A * C * Y)	-0.00055	-0.00055	-0.00054
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	0.00011	0.00011	0.00011
	(!A * C * Y)	0.00026	0.00026	0.00026
	(!A * !C * Y)	-0.00055	-0.00055	-0.00055
	(!A * !C * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * Y)	0.00014	0.00014	0.00014
	(!A * !C * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7R	(A * !C * Y)	0.00052	0.00054	0.00060
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * Y)	-0.00074	-0.00070	-0.00063
	(!A * C * Y)	0.00054	0.00055	0.00055
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00011	-0.00011	-0.00011
	(!A * C * Y)	-0.00026	-0.00026	-0.00026
	(!A * !C * Y)	0.00056	0.00056	0.00057
	(!A * !C * Y)	0.00001	0.00001	0.00001
	(!A * !C * Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7R	(!B * Y)	-0.00085	-0.00085	-0.00084
	(!B * Y)	-0.00001	-0.00001	-0.00001
	(!B * Y)	0.00007	0.00007	0.00007
	(!B * Y)	0.00026	0.00026	0.00026
	(!A * B * Y)	-0.00085	-0.00084	-0.00083
	(!A * B * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * Y)	0.00007	0.00007	0.00007
	(!A * B * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for C falling (conditional):

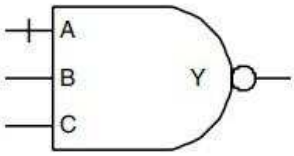
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X4H7R	(!B * Y)	0.00084	0.00085	0.00085
	(!B * Y)	0.00001	0.00001	0.00002
	(!B * Y)	-0.00007	-0.00006	-0.00006
	(!B * Y)	-0.00026	-0.00026	-0.00026
	(!A * B * Y)	0.00084	0.00085	0.00085
	(!A * B * Y)	0.00001	0.00001	0.00002
	(!A * B * Y)	-0.00007	-0.00007	-0.00007
	(!A * B * Y)	-0.00024	-0.00024	-0.00024

NAND3X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X6H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X6H7R	0.00267	0.00270	0.00279	0.12750

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X6H7R	0.00000	0.31671	0.76920

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X6H7R	A->Y (FR)	0.01454	0.12269	0.49544
	B->Y (FR)	0.01339	0.11947	0.49270
	C->Y (FR)	0.01144	0.11553	0.49019

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X6H7R	A->Y (RF)	0.02293	0.16938	0.61188
	B->Y (RF)	0.02107	0.17326	0.64998
	C->Y (RF)	0.01666	0.16658	0.64284

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X6H7R	A	0.00370	0.00414	0.00588
	A	-0.00041	-0.00040	-0.00040
	A	0.00049	0.00049	0.00050
	A	-0.00042	-0.00013	0.00156
	B	0.00311	0.00351	0.00529
	B	-0.00041	-0.00040	-0.00039
	B	0.00023	0.00030	0.00030
	B	-0.00036	-0.00006	0.00165
	C	0.00247	0.00288	0.00510
	C	-0.00041	-0.00040	-0.00038
	C	0.00004	0.00009	0.00012
	C	-0.00043	-0.00003	0.00213

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X6H7R	A	-0.00042	-0.00023	0.00085
	A	0.00040	0.00040	0.00041
	A	-0.00050	-0.00049	-0.00049
	A	0.00406	0.00423	0.00534
	B	-0.00041	-0.00021	0.00108
	B	0.00040	0.00040	0.00041
	B	-0.00030	-0.00030	-0.00023
	B	0.00319	0.00346	0.00478
	C	-0.00042	-0.00010	0.00184
	C	0.00040	0.00040	0.00041
	C	-0.00010	-0.00009	-0.00004
	C	0.00246	0.00282	0.00482

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7R	(B * !C * Y)	-0.00062	-0.00061	-0.00061
	(B * !C * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * Y)	0.00004	0.00005	0.00005
	(B * !C * Y)	0.00072	0.00072	0.00072
	(!B * C * Y)	-0.00061	-0.00061	-0.00060
	(!B * C * Y)	-0.00002	-0.00002	-0.00001
	(!B * C * Y)	0.00004	0.00004	0.00004
	(!B * C * Y)	0.00074	0.00075	0.00076
	(!B * !C * Y)	-0.00061	-0.00061	-0.00061
	(!B * !C * Y)	-0.00002	-0.00002	-0.00001
	(!B * !C * Y)	0.00005	0.00005	0.00006
	(!B * !C * Y)	0.00071	0.00072	0.00073

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7R	(B * !C * Y)	0.00062	0.00062	0.00063
	(B * !C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y)	-0.00005	-0.00005	-0.00004
	(B * !C * Y)	-0.00072	-0.00067	-0.00059
	(!B * C * Y)	0.00061	0.00061	0.00062
	(!B * C * Y)	0.00001	0.00002	0.00002
	(!B * C * Y)	-0.00004	-0.00004	-0.00004
	(!B * C * Y)	-0.00072	-0.00069	-0.00063
	(!B * !C * Y)	0.00061	0.00061	0.00061
	(!B * !C * Y)	0.00001	0.00002	0.00002
	(!B * !C * Y)	-0.00006	-0.00005	-0.00005
	(!B * !C * Y)	-0.00072	-0.00069	-0.00064

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7R	(A * !C * Y)	-0.00062	-0.00062	-0.00061
	(A * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * Y)	0.00003	0.00003	0.00004
	(A * !C * Y)	0.00074	0.00075	0.00075
	(!A * C * Y)	-0.00064	-0.00064	-0.00063
	(!A * C * Y)	-0.00002	-0.00002	-0.00001
	(!A * C * Y)	0.00016	0.00016	0.00016
	(!A * C * Y)	0.00018	0.00018	0.00018
	(!A * !C * Y)	-0.00064	-0.00064	-0.00063
	(!A * !C * Y)	-0.00002	-0.00002	-0.00001
	(!A * !C * Y)	0.00021	0.00021	0.00021
	(!A * !C * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7R	(A * !C * Y)	0.00063	0.00065	0.00070
	(A * !C * Y)	0.00002	0.00002	0.00002
	(A * !C * Y)	-0.00004	-0.00003	-0.00003
	(A * !C * Y)	-0.00073	-0.00068	-0.00061
	(!A * C * Y)	0.00063	0.00064	0.00064
	(!A * C * Y)	0.00002	0.00002	0.00002
	(!A * C * Y)	-0.00016	-0.00015	-0.00015
	(!A * C * Y)	-0.00018	-0.00018	-0.00018
	(!A * !C * Y)	0.00065	0.00065	0.00065
	(!A * !C * Y)	0.00001	0.00002	0.00002
	(!A * !C * Y)	-0.00021	-0.00021	-0.00021
	(!A * !C * Y)	-0.00019	-0.00018	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7R	(!B * Y)	-0.00087	-0.00086	-0.00086
	(!B * Y)	-0.00002	-0.00002	-0.00002
	(!B * Y)	0.00010	0.00010	0.00010
	(!B * Y)	0.00019	0.00019	0.00019
	(!A * B * Y)	-0.00086	-0.00086	-0.00086
	(!A * B * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * Y)	0.00010	0.00010	0.00010
	(!A * B * Y)	0.00017	0.00017	0.00018

Passive power(pJ) for C falling (conditional):

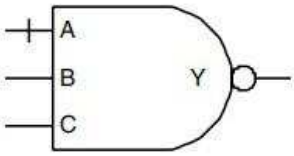
Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X6H7R	(!B * Y)	0.00086	0.00087	0.00087
	(!B * Y)	0.00002	0.00002	0.00002
	(!B * Y)	-0.00010	-0.00010	-0.00009
	(!B * Y)	-0.00019	-0.00019	-0.00019
	(!A * B * Y)	0.00086	0.00086	0.00087
	(!A * B * Y)	0.00002	0.00002	0.00002
	(!A * B * Y)	-0.00010	-0.00010	-0.00009
	(!A * B * Y)	-0.00017	-0.00017	-0.00017

NAND3X8H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND3 cell provides the logical NAND of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	x	x	1
1	0	x	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
NAND3X8H7R	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NAND3X8H7R	0.00357	0.00356	0.00367	0.17013

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND3X8H7R	0.00000	0.42228	1.02560

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X8H7R	A->Y (FR)	0.01443	0.12278	0.49584
	B->Y (FR)	0.01329	0.11952	0.49355
	C->Y (FR)	0.01125	0.11543	0.49055

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND3X8H7R	A->Y (RF)	0.02290	0.16979	0.61248
	B->Y (RF)	0.02093	0.17349	0.65167
	C->Y (RF)	0.01634	0.16670	0.64445

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X8H7R	A	0.00501	0.00561	0.00793
	A	-0.00054	-0.00054	-0.00052
	A	0.00065	0.00066	0.00066
	A	-0.00050	-0.00011	0.00214
	B	0.00429	0.00477	0.00713
	B	-0.00054	-0.00054	-0.00053
	B	0.00038	0.00040	0.00040
	B	-0.00049	-0.00005	0.00223
	C	0.00341	0.00389	0.00685
	C	-0.00054	-0.00054	-0.00052
	C	0.00004	0.00012	0.00020
	C	-0.00056	-0.00002	0.00287

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND3X8H7R	A	-0.00056	-0.00032	0.00112
	A	0.00052	0.00054	0.00055
	A	-0.00066	-0.00066	-0.00065
	A	0.00544	0.00568	0.00714
	B	-0.00055	-0.00028	0.00143
	B	0.00053	0.00054	0.00054
	B	-0.00040	-0.00040	-0.00038
	B	0.00433	0.00466	0.00642
	C	-0.00057	-0.00014	0.00248
	C	0.00053	0.00054	0.00054
	C	-0.00013	-0.00012	-0.00004
	C	0.00336	0.00378	0.00646

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7R	(B * !C * Y)	-0.00083	-0.00083	-0.00082
	(B * !C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y)	0.00006	0.00006	0.00007
	(B * !C * Y)	0.00094	0.00096	0.00096
	(!B * C * Y)	-0.00083	-0.00082	-0.00082
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	0.00005	0.00005	0.00006
	(!B * C * Y)	0.00098	0.00099	0.00100
	(!B * !C * Y)	-0.00083	-0.00082	-0.00082
	(!B * !C * Y)	-0.00002	-0.00002	-0.00001
	(!B * !C * Y)	0.00007	0.00007	0.00007
	(!B * !C * Y)	0.00095	0.00096	0.00096

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7R	(B * !C * Y)	0.00083	0.00084	0.00084
	(B * !C * Y)	0.00002	0.00002	0.00003
	(B * !C * Y)	-0.00007	-0.00006	-0.00006
	(B * !C * Y)	-0.00095	-0.00088	-0.00078
	(!B * C * Y)	0.00083	0.00083	0.00083
	(!B * C * Y)	0.00002	0.00002	0.00003
	(!B * C * Y)	-0.00006	-0.00005	-0.00005
	(!B * C * Y)	-0.00096	-0.00091	-0.00084
	(!B * !C * Y)	0.00082	0.00083	0.00083
	(!B * !C * Y)	0.00002	0.00002	0.00002
	(!B * !C * Y)	-0.00007	-0.00007	-0.00007
	(!B * !C * Y)	-0.00096	-0.00091	-0.00085

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7R	(A * !C * Y)	-0.00084	-0.00084	-0.00083
	(A * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * Y)	0.00004	0.00005	0.00005
	(A * !C * Y)	0.00101	0.00102	0.00102
	(!A * C * Y)	-0.00086	-0.00085	-0.00085
	(!A * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * Y)	0.00020	0.00020	0.00020
	(!A * C * Y)	0.00027	0.00027	0.00028
	(!A * !C * Y)	-0.00087	-0.00086	-0.00086
	(!A * !C * Y)	-0.00003	-0.00002	-0.00001
	(!A * !C * Y)	0.00027	0.00027	0.00027
	(!A * !C * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7R	(A * !C * Y)	0.00084	0.00087	0.00094
	(A * !C * Y)	0.00002	0.00002	0.00003
	(A * !C * Y)	-0.00005	-0.00005	-0.00004
	(A * !C * Y)	-0.00099	-0.00093	-0.00084
	(!A * C * Y)	0.00086	0.00086	0.00087
	(!A * C * Y)	0.00002	0.00002	0.00003
	(!A * C * Y)	-0.00020	-0.00020	-0.00020
	(!A * C * Y)	-0.00027	-0.00027	-0.00027
	(!A * !C * Y)	0.00087	0.00088	0.00089
	(!A * !C * Y)	0.00002	0.00002	0.00003
	(!A * !C * Y)	-0.00027	-0.00027	-0.00027
	(!A * !C * Y)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7R	(!B * Y)	-0.00117	-0.00116	-0.00115
	(!B * Y)	-0.00003	-0.00002	-0.00002
	(!B * Y)	0.00013	0.00013	0.00013
	(!B * Y)	0.00026	0.00026	0.00026
	(!A * B * Y)	-0.00116	-0.00116	-0.00115
	(!A * B * Y)	-0.00003	-0.00002	-0.00002
	(!A * B * Y)	0.00013	0.00013	0.00013
	(!A * B * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND3X8H7R	(!B * Y)	0.00115	0.00116	0.00117
	(!B * Y)	0.00002	0.00002	0.00003
	(!B * Y)	-0.00012	-0.00012	-0.00012
	(!B * Y)	-0.00026	-0.00026	-0.00026
	(!A * B * Y)	0.00115	0.00116	0.00117
	(!A * B * Y)	0.00002	0.00002	0.00003
	(!A * B * Y)	-0.00012	-0.00012	-0.00012
	(!A * B * Y)	-0.00023	-0.00023	-0.00023

NAND4BBX0P5H7R

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX0P5H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX0P5H7R	0.00083	0.00071	0.00067	0.00072	0.01854

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX0P5H7R	0.00000	0.22592	0.45625

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX0P5H7R	A0->YN (RR)	0.03770	0.10803	0.26788
	A1->YN (RR)	0.03998	0.11277	0.27746
	B0->YN (FR)	0.02167	0.11438	0.43281
	B1->YN (FR)	0.02046	0.11198	0.43128

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX0P5H7R	A0->YN (FF)	0.06894	0.21185	0.56932
	A1->YN (FF)	0.07169	0.21785	0.58207
	B0->YN (RF)	0.04501	0.19946	0.66202
	B1->YN (RF)	0.04177	0.19340	0.65005

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7R	A0	0.00085	0.00096	0.00136
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00011	0.00011	0.00011
	A0	0.00094	0.00105	0.00144
	A1	0.00095	0.00105	0.00143
	A1	-0.00007	-0.00007	-0.00006
	A1	0.00007	0.00007	0.00007
	A1	0.00108	0.00119	0.00156
	B0	0.00077	0.00082	0.00111
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00003	0.00005	0.00006
	B0	0.00001	0.00006	0.00034
	B1	0.00063	0.00069	0.00101
	B1	-0.00009	-0.00009	-0.00009
	B1	0.00000	0.00002	0.00002
	B1	0.00000	0.00006	0.00037

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7R	A0	0.00103	0.00115	0.00158
	A0	0.00007	0.00007	0.00008
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00096	0.00108	0.00152
	A1	0.00105	0.00117	0.00158
	A1	0.00007	0.00007	0.00007
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00094	0.00106	0.00147
	B0	0.00004	0.00007	0.00023
	B0	0.00009	0.00009	0.00009
	B0	-0.00005	-0.00005	-0.00003
	B0	0.00081	0.00084	0.00101
	B1	0.00009	0.00014	0.00039
	B1	0.00009	0.00009	0.00009
	B1	-0.00002	-0.00002	0.00000
	B1	0.00072	0.00077	0.00102

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7R	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00004	0.00014	0.00053
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00069	0.00079	0.00118
	(A1 * !B1 * YN)	0.00004	0.00014	0.00053
	(A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * !B1 * YN)	0.00068	0.00079	0.00118
	(A1 * !B0 * B1 * YN)	0.00004	0.00014	0.00053
	(A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * YN)	0.00068	0.00079	0.00118
	(!A1 * !B0 * !B1 * YN)	0.00008	0.00018	0.00057
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * YN)	0.00073	0.00084	0.00122

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7R	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00070	0.00083	0.00125
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00006	0.00018	0.00061
	(A1 * !B1 * YN)	0.00070	0.00082	0.00125
	(A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * YN)	0.00002	0.00003	0.00003
	(A1 * !B1 * YN)	0.00006	0.00018	0.00061
	(A1 * !B0 * B1 * YN)	0.00070	0.00083	0.00125
	(A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * YN)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * YN)	0.00006	0.00018	0.00061
	(!A1 * !B0 * !B1 * YN)	0.00066	0.00079	0.00121
	(!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00014	0.00056

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7R	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00010	0.00021	0.00059
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00005	-0.00005	-0.00004
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00078	0.00089	0.00127
	(!B0 * !B1 * YN)	0.00010	0.00021	0.00058
	(!B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!B0 * !B1 * YN)	0.00080	0.00090	0.00128

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7R	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00072	0.00084	0.00125
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00005	0.00005	0.00005
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00005	0.00016	0.00057
	(!B0 * !B1 * YN)	0.00074	0.00085	0.00126
	(!B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(!B0 * !B1 * YN)	0.00005	0.00016	0.00057

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7R	(A1 * B1 * YN)	-0.00013	-0.00013	-0.00013
	(A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * YN)	0.00002	0.00003	0.00003
	(A1 * B1 * YN)	0.00014	0.00014	0.00014
	(A1 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * YN)	0.00004	0.00004	0.00004
	(A1 * !B1 * YN)	0.00014	0.00014	0.00014
	(A0 * !A1 * B1 * YN)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * !B1 * YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * YN)	0.00015	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7R	(A1 * B1 * YN)	0.00013	0.00013	0.00013
	(A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A1 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * YN)	-0.00014	-0.00014	-0.00013
	(A1 * !B1 * YN)	0.00013	0.00013	0.00013
	(A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * B1 * YN)	0.00021	0.00021	0.00021
	(A0 * !A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * !B1 * YN)	0.00023	0.00023	0.00023
	(A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * YN)	0.00020	0.00021	0.00021
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00015	-0.00014	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7R	(A1 * B0 * YN)	-0.00019	-0.00019	-0.00019
	(A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * YN)	0.00001	0.00002	0.00002
	(A1 * B0 * YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * B0 * YN)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * YN)	0.00006	0.00006	0.00007
	(!B0 * YN)	-0.00019	-0.00019	-0.00019
	(!B0 * YN)	-0.00000	-0.00000	-0.00000
	(!B0 * YN)	0.00002	0.00002	0.00002
	(!B0 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P5H7R	(A1 * B0 * YN)	0.00019	0.00019	0.00019
	(A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * B0 * YN)	0.00021	0.00021	0.00021
	(A0 * !A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * YN)	-0.00006	-0.00006	-0.00006
	(!B0 * YN)	0.00019	0.00019	0.00019
	(!B0 * YN)	0.00000	0.00000	0.00000
	(!B0 * YN)	-0.00002	-0.00002	-0.00002
	(!B0 * YN)	-0.00007	-0.00007	-0.00007

NAND4BBX0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX0P7H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX0P7H7R	0.00084	0.00072	0.00072	0.00078	0.02117

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX0P7H7R	0.00000	0.23112	0.48406

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX0P7H7R	A0->YN (RR)	0.03667	0.10793	0.26984
	A1->YN (RR)	0.03884	0.11246	0.27893
	B0->YN (FR)	0.02046	0.11342	0.43516
	B1->YN (FR)	0.01929	0.11107	0.43356

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX0P7H7R	A0->YN (FF)	0.06625	0.21053	0.57116
	A1->YN (FF)	0.06860	0.21598	0.58357
	B0->YN (RF)	0.04207	0.19743	0.66365
	B1->YN (RF)	0.03893	0.19124	0.65151

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7R	A0	0.00092	0.00103	0.00143
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00012	0.00012	0.00013
	A0	0.00096	0.00107	0.00146
	A1	0.00102	0.00113	0.00151
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00008	0.00009	0.00009
	A1	0.00109	0.00120	0.00157
	B0	0.00081	0.00089	0.00120
	B0	-0.00011	-0.00011	-0.00010
	B0	0.00004	0.00006	0.00008
	B0	-0.00001	0.00006	0.00037
	B1	0.00068	0.00075	0.00111
	B1	-0.00011	-0.00011	-0.00010
	B1	0.00000	0.00002	0.00007
	B1	-0.00001	0.00006	0.00041

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7R	A0	0.00106	0.00119	0.00162
	A0	0.00009	0.00009	0.00009
	A0	-0.00013	-0.00012	-0.00012
	A0	0.00106	0.00118	0.00161
	A1	0.00107	0.00119	0.00161
	A1	0.00008	0.00009	0.00009
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00102	0.00114	0.00156
	B0	0.00004	0.00008	0.00026
	B0	0.00011	0.00011	0.00011
	B0	-0.00007	-0.00006	-0.00004
	B0	0.00087	0.00092	0.00111
	B1	0.00009	0.00015	0.00043
	B1	0.00011	0.00011	0.00011
	B1	-0.00002	-0.00002	0.00000
	B1	0.00079	0.00084	0.00113

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7R	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00005	0.00015	0.00054
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00070	0.00081	0.00120
	(A1 * !B1 * YN)	0.00005	0.00015	0.00054
	(A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B1 * YN)	0.00070	0.00081	0.00119
	(A1 * !B0 * B1 * YN)	0.00005	0.00015	0.00054
	(A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * YN)	0.00071	0.00081	0.00119
	(!A1 * !B0 * !B1 * YN)	0.00009	0.00019	0.00058
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * YN)	0.00075	0.00085	0.00123

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7R	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00071	0.00083	0.00126
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00002	0.00002	0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00006	0.00018	0.00061
	(A1 * !B1 * YN)	0.00071	0.00083	0.00126
	(A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B1 * YN)	0.00006	0.00018	0.00060
	(A1 * !B0 * B1 * YN)	0.00071	0.00083	0.00126
	(A1 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * YN)	0.00006	0.00018	0.00060
	(!A1 * !B0 * !B1 * YN)	0.00068	0.00080	0.00122
	(!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00014	0.00056

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7R	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00012	0.00022	0.00060
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00002	0.00002	0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00080	0.00091	0.00129
	(!B0 * !B1 * YN)	0.00012	0.00022	0.00060
	(!B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!B0 * !B1 * YN)	0.00082	0.00093	0.00130

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7R	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00072	0.00084	0.00125
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00005	0.00005	0.00005
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00004	0.00015	0.00056
	(!B0 * !B1 * YN)	0.00074	0.00085	0.00126
	(!B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(!B0 * !B1 * YN)	0.00004	0.00015	0.00056

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7R	(A1 * B1 * YN)	-0.00014	-0.00014	-0.00014
	(A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * YN)	0.00003	0.00003	0.00004
	(A1 * B1 * YN)	0.00013	0.00013	0.00013
	(A1 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * YN)	0.00004	0.00005	0.00005
	(A1 * !B1 * YN)	0.00013	0.00013	0.00013
	(A0 * !A1 * B1 * YN)	-0.00023	-0.00022	-0.00022
	(A0 * !A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * B1 * YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * !B1 * YN)	-0.00024	-0.00024	-0.00023
	(A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * YN)	0.00016	0.00016	0.00016

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7R	(A1 * B1 * YN)	0.00014	0.00014	0.00014
	(A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A1 * B1 * YN)	-0.00004	-0.00003	-0.00003
	(A1 * B1 * YN)	-0.00013	-0.00013	-0.00013
	(A1 * !B1 * YN)	0.00014	0.00014	0.00014
	(A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(A1 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * B1 * YN)	0.00022	0.00022	0.00023
	(A0 * !A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * !B1 * YN)	0.00024	0.00024	0.00025
	(A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * YN)	0.00021	0.00022	0.00022
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00015	-0.00015	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7R	(A1 * B0 * YN)	-0.00022	-0.00021	-0.00021
	(A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * YN)	0.00001	0.00002	0.00002
	(A1 * B0 * YN)	0.00007	0.00007	0.00008
	(A0 * !A1 * B0 * YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * YN)	0.00006	0.00006	0.00006
	(!B0 * YN)	-0.00022	-0.00021	-0.00021
	(!B0 * YN)	-0.00000	-0.00000	-0.00000
	(!B0 * YN)	0.00002	0.00002	0.00003
	(!B0 * YN)	0.00006	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX0P7H7R	(A1 * B0 * YN)	0.00021	0.00021	0.00022
	(A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A1 * B0 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * B0 * YN)	0.00023	0.00023	0.00023
	(A0 * !A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * YN)	-0.00006	-0.00006	-0.00006
	(!B0 * YN)	0.00021	0.00022	0.00022
	(!B0 * YN)	0.00000	0.00000	0.00000
	(!B0 * YN)	-0.00002	-0.00002	-0.00002
	(!B0 * YN)	-0.00007	-0.00007	-0.00006

NAND4BBX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX1H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX1H7R	0.00084	0.00071	0.00079	0.00084	0.02485

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX1H7R	0.00000	0.23882	0.52786

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX1H7R	A0->YN (RR)	0.03548	0.10692	0.26853
	A1->YN (RR)	0.03751	0.11108	0.27705
	B0->YN (FR)	0.01900	0.11104	0.43241
	B1->YN (FR)	0.01765	0.10839	0.43017

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX1H7R	A0->YN (FF)	0.06406	0.20979	0.57360
	A1->YN (FF)	0.06591	0.21464	0.58523
	B0->YN (RF)	0.03940	0.19556	0.66585
	B1->YN (RF)	0.03567	0.18850	0.65014

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX1H7R	A0	0.00104	0.00115	0.00153
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00015	0.00015	0.00015
	A0	0.00100	0.00111	0.00149
	A1	0.00115	0.00126	0.00162
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00010	0.00010	0.00013
	A1	0.00113	0.00125	0.00161
	B0	0.00092	0.00100	0.00137
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00004	0.00007	0.00009
	B0	-0.00002	0.00007	0.00043
	B1	0.00076	0.00083	0.00126
	B1	-0.00013	-0.00013	-0.00012
	B1	0.00000	0.00002	0.00003
	B1	-0.00001	0.00007	0.00048

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX1H7R	A0	0.00112	0.00125	0.00167
	A0	0.00011	0.00011	0.00012
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00120	0.00133	0.00175
	A1	0.00110	0.00123	0.00164
	A1	0.00010	0.00011	0.00011
	A1	-0.00011	-0.00010	-0.00010
	A1	0.00114	0.00126	0.00168
	B0	0.00005	0.00009	0.00030
	B0	0.00013	0.00013	0.00013
	B0	-0.00008	-0.00007	-0.00004
	B0	0.00098	0.00103	0.00126
	B1	0.00009	0.00016	0.00050
	B1	0.00013	0.00013	0.00013
	B1	-0.00002	-0.00002	0.00000
	B1	0.00087	0.00093	0.00128

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7R	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00007	0.00017	0.00055
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00073	0.00083	0.00121
	(A1 * !B1 * YN)	0.00007	0.00017	0.00055
	(A1 * !B1 * YN)	0.00002	0.00003	0.00003
	(A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B1 * YN)	0.00073	0.00083	0.00121
	(A1 * !B0 * B1 * YN)	0.00007	0.00017	0.00055
	(A1 * !B0 * B1 * YN)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * YN)	0.00073	0.00083	0.00121
	(!A1 * !B0 * !B1 * YN)	0.00010	0.00020	0.00058
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * YN)	0.00076	0.00087	0.00124

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7R	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00073	0.00085	0.00127
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00002	-0.00003	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00008	0.00019	0.00061
	(A1 * !B1 * YN)	0.00073	0.00085	0.00126
	(A1 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B1 * YN)	0.00007	0.00019	0.00061
	(A1 * !B0 * B1 * YN)	0.00073	0.00085	0.00126
	(A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * YN)	0.00007	0.00019	0.00061
	(!A1 * !B0 * !B1 * YN)	0.00070	0.00082	0.00124
	(!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * YN)	0.00004	0.00016	0.00057

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7R	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00015	0.00025	0.00063
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00002	0.00003	0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00083	0.00093	0.00131
	(!B0 * !B1 * YN)	0.00015	0.00025	0.00062
	(!B0 * !B1 * YN)	0.00002	0.00003	0.00002
	(!B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007
	(!B0 * !B1 * YN)	0.00085	0.00096	0.00133

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7R	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00071	0.00082	0.00123
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00005	0.00006	0.00005
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00003	0.00014	0.00055
	(!B0 * !B1 * YN)	0.00073	0.00084	0.00125
	(!B0 * !B1 * YN)	-0.00002	-0.00003	-0.00002
	(!B0 * !B1 * YN)	0.00007	0.00007	0.00007
	(!B0 * !B1 * YN)	0.00003	0.00014	0.00055

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7R	(A1 * B1 * YN)	-0.00016	-0.00016	-0.00016
	(A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * YN)	0.00003	0.00004	0.00004
	(A1 * B1 * YN)	0.00013	0.00013	0.00014
	(A1 * !B1 * YN)	-0.00016	-0.00016	-0.00016
	(A1 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(A1 * !B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B1 * YN)	0.00013	0.00013	0.00013
	(A0 * !A1 * B1 * YN)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B1 * YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * !B1 * YN)	-0.00026	-0.00025	-0.00025
	(A0 * !A1 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B1 * YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * YN)	-0.00023	-0.00023	-0.00022
	(!A0 * !A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * YN)	0.00017	0.00017	0.00018

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7R	(A1 * B1 * YN)	0.00016	0.00016	0.00016
	(A1 * B1 * YN)	0.00000	0.00000	0.00001
	(A1 * B1 * YN)	-0.00004	-0.00004	-0.00003
	(A1 * B1 * YN)	-0.00013	-0.00013	-0.00013
	(A1 * !B1 * YN)	0.00016	0.00016	0.00016
	(A1 * !B1 * YN)	0.00000	0.00000	0.00001
	(A1 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * B1 * YN)	0.00024	0.00024	0.00024
	(A0 * !A1 * B1 * YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * !B1 * YN)	0.00026	0.00026	0.00027
	(A0 * !A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * YN)	0.00023	0.00023	0.00025
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7R	(A1 * B0 * YN)	-0.00024	-0.00024	-0.00023
	(A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * YN)	0.00002	0.00002	0.00002
	(A1 * B0 * YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * B0 * YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * B0 * YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B0 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * YN)	0.00006	0.00006	0.00006
	(!B0 * YN)	-0.00024	-0.00024	-0.00024
	(!B0 * YN)	-0.00000	-0.00000	-0.00000
	(!B0 * YN)	0.00002	0.00003	0.00003
	(!B0 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1H7R	(A1 * B0 * YN)	0.00024	0.00024	0.00024
	(A1 * B0 * YN)	0.00000	0.00000	0.00001
	(A1 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * YN)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * B0 * YN)	0.00025	0.00025	0.00025
	(A0 * !A1 * B0 * YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * YN)	-0.00006	-0.00006	-0.00006
	(!B0 * YN)	0.00024	0.00024	0.00024
	(!B0 * YN)	0.00000	0.00000	0.00000
	(!B0 * YN)	-0.00002	-0.00002	-0.00002
	(!B0 * YN)	-0.00007	-0.00007	-0.00007

NAND4BBX1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX1P4H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX1P4H7R	0.00084	0.00072	0.00085	0.00091	0.02866

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX1P4H7R	0.00000	0.24621	0.56609

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX1P4H7R	A0->YN (RR)	0.03376	0.10619	0.27012
	A1->YN (RR)	0.03627	0.11099	0.27961
	B0->YN (FR)	0.01764	0.10980	0.43392
	B1->YN (FR)	0.01606	0.10696	0.43246

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX1P4H7R	A0->YN (FF)	0.05976	0.20683	0.57388
	A1->YN (FF)	0.06228	0.21257	0.58685
	B0->YN (RF)	0.03604	0.19264	0.66617
	B1->YN (RF)	0.03163	0.18494	0.65134

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7R	A0	0.00109	0.00120	0.00158
	A0	-0.00013	-0.00013	-0.00012
	A0	0.00017	0.00017	0.00017
	A0	0.00092	0.00103	0.00142
	A1	0.00121	0.00133	0.00168
	A1	-0.00013	-0.00013	-0.00011
	A1	0.00011	0.00012	0.00014
	A1	0.00108	0.00120	0.00157
	B0	0.00097	0.00104	0.00147
	B0	-0.00015	-0.00015	-0.00013
	B0	0.00005	0.00008	0.00011
	B0	-0.00011	-0.00001	0.00040
	B1	0.00079	0.00088	0.00138
	B1	-0.00015	-0.00015	-0.00014
	B1	0.00002	0.00003	0.00006
	B1	-0.00011	-0.00002	0.00047

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7R	A0	0.00113	0.00126	0.00168
	A0	0.00013	0.00013	0.00013
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00133	0.00146	0.00188
	A1	0.00111	0.00124	0.00165
	A1	0.00013	0.00013	0.00014
	A1	-0.00013	-0.00012	-0.00011
	A1	0.00126	0.00139	0.00181
	B0	0.00003	0.00008	0.00034
	B0	0.00015	0.00015	0.00015
	B0	-0.00009	-0.00008	-0.00005
	B0	0.00111	0.00116	0.00142
	B1	0.00007	0.00014	0.00055
	B1	0.00015	0.00015	0.00015
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00097	0.00104	0.00146

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7R	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00006	0.00017	0.00054
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00072	0.00082	0.00120
	(A1 * !B1 * YN)	0.00006	0.00017	0.00054
	(A1 * !B1 * YN)	0.00002	0.00003	0.00003
	(A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B1 * YN)	0.00072	0.00082	0.00120
	(A1 * !B0 * B1 * YN)	0.00006	0.00017	0.00054
	(A1 * !B0 * B1 * YN)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * YN)	0.00072	0.00082	0.00120
	(!A1 * !B0 * !B1 * YN)	0.00011	0.00021	0.00059
	(!A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * YN)	0.00077	0.00088	0.00125

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7R	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00076	0.00087	0.00129
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00002	0.00003	0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00011	0.00022	0.00064
	(A1 * !B1 * YN)	0.00075	0.00087	0.00129
	(A1 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B1 * YN)	0.00010	0.00022	0.00063
	(A1 * !B0 * B1 * YN)	0.00075	0.00087	0.00129
	(A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * YN)	0.00010	0.00022	0.00063
	(!A1 * !B0 * !B1 * YN)	0.00071	0.00082	0.00124
	(!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * YN)	0.00005	0.00017	0.00058

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7R	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00017	0.00027	0.00064
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00002	0.00003	0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00085	0.00095	0.00133
	(!B0 * !B1 * YN)	0.00017	0.00027	0.00064
	(!B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!B0 * !B1 * YN)	-0.00008	-0.00007	-0.00007
	(!B0 * !B1 * YN)	0.00088	0.00098	0.00135

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7R	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00071	0.00083	0.00123
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00006	0.00006	0.00006
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00003	0.00014	0.00055
	(!B0 * !B1 * YN)	0.00073	0.00084	0.00125
	(!B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!B0 * !B1 * YN)	0.00007	0.00007	0.00008
	(!B0 * !B1 * YN)	0.00003	0.00014	0.00054

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7R	(A1 * B1 * YN)	-0.00020	-0.00020	-0.00020
	(A1 * B1 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * YN)	0.00004	0.00004	0.00005
	(A1 * B1 * YN)	0.00012	0.00012	0.00013
	(A1 * !B1 * YN)	-0.00020	-0.00020	-0.00020
	(A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(A1 * !B1 * YN)	0.00012	0.00013	0.00013
	(A0 * !A1 * B1 * YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * YN)	0.00003	0.00004	0.00005
	(A0 * !A1 * B1 * YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * !B1 * YN)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * YN)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * YN)	0.00018	0.00018	0.00019

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7R	(A1 * B1 * YN)	0.00020	0.00020	0.00020
	(A1 * B1 * YN)	0.00000	0.00001	0.00001
	(A1 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * B1 * YN)	-0.00013	-0.00012	-0.00012
	(A1 * !B1 * YN)	0.00021	0.00021	0.00021
	(A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A1 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * !B1 * YN)	-0.00013	-0.00013	-0.00012
	(A0 * !A1 * B1 * YN)	0.00028	0.00028	0.00028
	(A0 * !A1 * B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * YN)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * !B1 * YN)	0.00030	0.00030	0.00030
	(A0 * !A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * YN)	0.00026	0.00027	0.00028
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7R	(A1 * B0 * YN)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * YN)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * YN)	0.00010	0.00010	0.00011
	(A0 * !A1 * B0 * YN)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * YN)	0.00008	0.00008	0.00008
	(!B0 * YN)	-0.00026	-0.00026	-0.00026
	(!B0 * YN)	-0.00001	-0.00000	-0.00000
	(!B0 * YN)	0.00002	0.00003	0.00003
	(!B0 * YN)	0.00010	0.00010	0.00011

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX1P4H7R	(A1 * B0 * YN)	0.00026	0.00026	0.00026
	(A1 * B0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * YN)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B0 * YN)	0.00028	0.00029	0.00029
	(A0 * !A1 * B0 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * YN)	-0.00008	-0.00008	-0.00007
	(!B0 * YN)	0.00026	0.00026	0.00026
	(!B0 * YN)	0.00000	0.00001	0.00001
	(!B0 * YN)	-0.00003	-0.00003	-0.00002
	(!B0 * YN)	-0.00010	-0.00010	-0.00010

NAND4BBX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX2H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX2H7R	0.00085	0.00072	0.00092	0.00100	0.03371

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX2H7R	0.00000	0.25752	0.61998

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX2H7R	A0->YN (RR)	0.03375	0.10745	0.27380
	A1->YN (RR)	0.03588	0.11172	0.28260
	B0->YN (FR)	0.01639	0.10851	0.43489
	B1->YN (FR)	0.01484	0.10558	0.43315

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX2H7R	A0->YN (FF)	0.05804	0.20399	0.56717
	A1->YN (FF)	0.05969	0.20869	0.57883
	B0->YN (RF)	0.03240	0.18624	0.65517
	B1->YN (RF)	0.02806	0.17852	0.64027

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX2H7R	A0	0.00125	0.00137	0.00175
	A0	-0.00016	-0.00016	-0.00014
	A0	0.00021	0.00021	0.00026
	A0	0.00100	0.00111	0.00150
	A1	0.00136	0.00147	0.00184
	A1	-0.00016	-0.00016	-0.00015
	A1	0.00015	0.00015	0.00015
	A1	0.00113	0.00126	0.00162
	B0	0.00106	0.00116	0.00167
	B0	-0.00018	-0.00018	-0.00018
	B0	0.00006	0.00010	0.00018
	B0	-0.00014	0.00000	0.00050
	B1	0.00087	0.00097	0.00158
	B1	-0.00018	-0.00018	-0.00017
	B1	0.00001	0.00003	0.00004
	B1	-0.00011	0.00001	0.00060

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX2H7R	A0	0.00120	0.00132	0.00174
	A0	0.00016	0.00016	0.00016
	A0	-0.00024	-0.00021	-0.00021
	A0	0.00150	0.00163	0.00205
	A1	0.00116	0.00129	0.00169
	A1	0.00016	0.00016	0.00016
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00141	0.00153	0.00195
	B0	0.00003	0.00009	0.00041
	B0	0.00018	0.00018	0.00018
	B0	-0.00011	-0.00010	-0.00006
	B0	0.00119	0.00127	0.00160
	B1	0.00006	0.00015	0.00064
	B1	0.00018	0.00018	0.00018
	B1	-0.00003	-0.00003	-0.00001
	B1	0.00104	0.00112	0.00162

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7R	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00010	0.00020	0.00057
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00077	0.00087	0.00123
	(A1 * !B1 * YN)	0.00010	0.00020	0.00057
	(A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * !B1 * YN)	0.00077	0.00087	0.00123
	(A1 * !B0 * B1 * YN)	0.00010	0.00020	0.00057
	(A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * YN)	0.00077	0.00087	0.00123
	(!A1 * !B0 * !B1 * YN)	0.00016	0.00025	0.00062
	(!A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * YN)	0.00083	0.00093	0.00129

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7R	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00078	0.00089	0.00130
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00012	0.00023	0.00064
	(A1 * !B1 * YN)	0.00077	0.00089	0.00129
	(A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B1 * YN)	0.00002	0.00003	0.00003
	(A1 * !B1 * YN)	0.00011	0.00022	0.00063
	(A1 * !B0 * B1 * YN)	0.00077	0.00089	0.00129
	(A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * YN)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * YN)	0.00011	0.00022	0.00063
	(!A1 * !B0 * !B1 * YN)	0.00072	0.00084	0.00124
	(!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !B1 * YN)	0.00005	0.00017	0.00057

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7R	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00019	0.00029	0.00065
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00089	0.00099	0.00136
	(!B0 * !B1 * YN)	0.00019	0.00028	0.00065
	(!B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!B0 * !B1 * YN)	-0.00009	-0.00009	-0.00009
	(!B0 * !B1 * YN)	0.00092	0.00102	0.00138

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7R	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00074	0.00085	0.00125
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00007	0.00007	0.00007
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00004	0.00015	0.00055
	(!B0 * !B1 * YN)	0.00076	0.00087	0.00127
	(!B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(!B0 * !B1 * YN)	0.00004	0.00015	0.00054

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7R	(A1 * B1 * YN)	-0.00022	-0.00022	-0.00021
	(A1 * B1 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * YN)	0.00005	0.00005	0.00005
	(A1 * B1 * YN)	0.00012	0.00012	0.00012
	(A1 * !B1 * YN)	-0.00022	-0.00022	-0.00022
	(A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * YN)	0.00007	0.00007	0.00007
	(A1 * !B1 * YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * B1 * YN)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * YN)	0.00005	0.00005	0.00006
	(A0 * !A1 * B1 * YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * !B1 * YN)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * YN)	0.00007	0.00007	0.00007
	(A0 * !A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * YN)	0.00020	0.00020	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7R	(A1 * B1 * YN)	0.00022	0.00022	0.00022
	(A1 * B1 * YN)	0.00000	0.00001	0.00001
	(A1 * B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * B1 * YN)	-0.00012	-0.00012	-0.00012
	(A1 * !B1 * YN)	0.00022	0.00022	0.00022
	(A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A1 * !B1 * YN)	-0.00007	-0.00007	-0.00007
	(A1 * !B1 * YN)	-0.00012	-0.00012	-0.00012
	(A0 * !A1 * B1 * YN)	0.00028	0.00028	0.00029
	(A0 * !A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * !B1 * YN)	0.00031	0.00031	0.00031
	(A0 * !A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * YN)	0.00027	0.00028	0.00028
	(!A0 * !A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7R	(A1 * B0 * YN)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * YN)	0.00003	0.00004	0.00004
	(A1 * B0 * YN)	0.00008	0.00009	0.00009
	(A0 * !A1 * B0 * YN)	-0.00032	-0.00032	-0.00031
	(A0 * !A1 * B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * YN)	0.00003	0.00004	0.00004
	(A0 * !A1 * B0 * YN)	0.00005	0.00006	0.00006
	(!B0 * YN)	-0.00029	-0.00029	-0.00029
	(!B0 * YN)	-0.00001	-0.00001	-0.00000
	(!B0 * YN)	0.00003	0.00004	0.00004
	(!B0 * YN)	0.00008	0.00008	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX2H7R	(A1 * B0 * YN)	0.00029	0.00029	0.00029
	(A1 * B0 * YN)	0.00000	0.00001	0.00001
	(A1 * B0 * YN)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * YN)	-0.00009	-0.00008	-0.00008
	(A0 * !A1 * B0 * YN)	0.00031	0.00032	0.00032
	(A0 * !A1 * B0 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * YN)	-0.00006	-0.00006	-0.00005
	(!B0 * YN)	0.00029	0.00029	0.00029
	(!B0 * YN)	0.00000	0.00001	0.00001
	(!B0 * YN)	-0.00004	-0.00003	-0.00003
	(!B0 * YN)	-0.00008	-0.00008	-0.00008

NAND4BBX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX3H7R	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX3H7R	0.00086	0.00077	0.00147	0.00170	0.05097

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX3H7R	0.00000	0.29920	0.80171

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX3H7R	A0->YN (RR)	0.04239	0.12252	0.30018
	A1->YN (RR)	0.04239	0.12222	0.29928
	B0->YN (FR)	0.01643	0.10679	0.42726
	B1->YN (FR)	0.01495	0.10388	0.42401

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX3H7R	A0->YN (FF)	0.07261	0.22540	0.60222
	A1->YN (FF)	0.07065	0.22414	0.60261
	B0->YN (RF)	0.03304	0.18656	0.65427
	B1->YN (RF)	0.02877	0.17911	0.63923

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX3H7R	A0	0.00247	0.00258	0.00292
	A0	-0.00026	-0.00025	-0.00021
	A0	0.00033	0.00033	0.00034
	A0	0.00167	0.00178	0.00212
	A1	0.00262	0.00274	0.00306
	A1	-0.00025	-0.00025	-0.00023
	A1	0.00018	0.00023	0.00027
	A1	0.00182	0.00194	0.00226
	B0	0.00174	0.00191	0.00272
	B0	-0.00028	-0.00027	-0.00026
	B0	0.00012	0.00015	0.00020
	B0	-0.00006	0.00010	0.00089
	B1	0.00150	0.00167	0.00264
	B1	-0.00028	-0.00027	-0.00026
	B1	0.00003	0.00005	0.00007
	B1	-0.00008	0.00010	0.00104

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX3H7R	A0	0.00186	0.00198	0.00234
	A0	0.00025	0.00025	0.00026
	A0	-0.00034	-0.00033	-0.00033
	A0	0.00276	0.00288	0.00324
	A1	0.00158	0.00172	0.00210
	A1	0.00025	0.00025	0.00026
	A1	-0.00026	-0.00023	-0.00018
	A1	0.00245	0.00260	0.00297
	B0	0.00019	0.00029	0.00080
	B0	0.00027	0.00028	0.00028
	B0	-0.00016	-0.00015	-0.00012
	B0	0.00204	0.00213	0.00266
	B1	0.00019	0.00033	0.00112
	B1	0.00027	0.00027	0.00028
	B1	-0.00005	-0.00005	-0.00003
	B1	0.00177	0.00191	0.00272

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7R	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00023	0.00031	0.00062
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00096	0.00105	0.00135
	(A1 * !B1 * YN)	0.00023	0.00031	0.00062
	(A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B1 * YN)	-0.00006	-0.00006	-0.00005
	(A1 * !B1 * YN)	0.00097	0.00106	0.00136
	(A1 * !B0 * B1 * YN)	0.00023	0.00031	0.00062
	(A1 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * YN)	-0.00006	-0.00005	-0.00005
	(A1 * !B0 * B1 * YN)	0.00097	0.00105	0.00135
	(!A1 * !B0 * !B1 * YN)	0.00039	0.00047	0.00077
	(!A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * YN)	0.00111	0.00119	0.00149

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7R	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00111	0.00121	0.00156
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00004	0.00004	0.00004
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00040	0.00049	0.00084
	(A1 * !B1 * YN)	0.00111	0.00121	0.00155
	(A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B1 * YN)	0.00005	0.00006	0.00006
	(A1 * !B1 * YN)	0.00037	0.00047	0.00081
	(A1 * !B0 * B1 * YN)	0.00111	0.00121	0.00155
	(A1 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * YN)	0.00005	0.00005	0.00006
	(A1 * !B0 * B1 * YN)	0.00038	0.00048	0.00082
	(!A1 * !B0 * !B1 * YN)	0.00096	0.00106	0.00140
	(!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !B1 * YN)	0.00024	0.00034	0.00068

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7R	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00036	0.00045	0.00079
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00003	0.00003	0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00008	-0.00008	-0.00008
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00105	0.00114	0.00148
	(!B0 * !B1 * YN)	-0.00034	0.00035	0.00078
	(!B0 * !B1 * YN)	0.00003	0.00014	0.00080
	(!B0 * !B1 * YN)	-0.00011	-0.00011	-0.00010
	(!B0 * !B1 * YN)	0.00110	0.00120	0.00152

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7R	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00081	0.00091	0.00127
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00008	0.00008	0.00009
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00011	0.00022	0.00058
	(!B0 * !B1 * YN)	0.00085	0.00095	0.00131
	(!B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!B0 * !B1 * YN)	0.00010	0.00011	0.00011
	(!B0 * !B1 * YN)	0.00013	0.00023	0.00059

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7R	(A1 * B1 * YN)	-0.00035	-0.00035	-0.00034
	(A1 * B1 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * YN)	0.00006	0.00006	0.00006
	(A1 * B1 * YN)	0.00016	0.00016	0.00017
	(A1 * !B1 * YN)	-0.00035	-0.00035	-0.00034
	(A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * YN)	0.00009	0.00009	0.00009
	(A1 * !B1 * YN)	0.00017	0.00017	0.00017
	(A0 * !A1 * B1 * YN)	-0.00037	-0.00037	-0.00037
	(A0 * !A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * YN)	0.00007	0.00007	0.00007
	(A0 * !A1 * B1 * YN)	0.00013	0.00014	0.00015
	(A0 * !A1 * !B1 * YN)	-0.00041	-0.00040	-0.00040
	(A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * YN)	0.00010	0.00010	0.00010
	(A0 * !A1 * !B1 * YN)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * YN)	-0.00034	-0.00034	-0.00034
	(!A0 * !A1 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * YN)	0.00037	0.00038	0.00038

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7R	(A1 * B1 * YN)	0.00034	0.00035	0.00035
	(A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A1 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * B1 * YN)	-0.00016	-0.00016	-0.00015
	(A1 * !B1 * YN)	0.00035	0.00036	0.00036
	(A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B1 * YN)	-0.00009	-0.00009	-0.00009
	(A1 * !B1 * YN)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * B1 * YN)	0.00037	0.00037	0.00037
	(A0 * !A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * B1 * YN)	-0.00014	-0.00013	-0.00013
	(A0 * !A1 * !B1 * YN)	0.00041	0.00041	0.00042
	(A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * YN)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * YN)	0.00034	0.00035	0.00038
	(!A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * YN)	-0.00036	-0.00035	-0.00032

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7R	(A1 * B0 * YN)	-0.00047	-0.00047	-0.00047
	(A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * YN)	0.00005	0.00005	0.00006
	(A1 * B0 * YN)	0.00014	0.00015	0.00015
	(A0 * !A1 * B0 * YN)	-0.00048	-0.00048	-0.00048
	(A0 * !A1 * B0 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B0 * YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * B0 * YN)	0.00013	0.00014	0.00014
	(!B0 * YN)	-0.00047	-0.00047	-0.00047
	(!B0 * YN)	-0.00001	-0.00001	-0.00001
	(!B0 * YN)	0.00007	0.00007	0.00007
	(!B0 * YN)	0.00013	0.00013	0.00013

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX3H7R	(A1 * B0 * YN)	0.00047	0.00047	0.00047
	(A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * YN)	-0.00006	-0.00005	-0.00005
	(A1 * B0 * YN)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * B0 * YN)	0.00048	0.00048	0.00048
	(A0 * !A1 * B0 * YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B0 * YN)	-0.00013	-0.00013	-0.00013
	(!B0 * YN)	0.00047	0.00047	0.00047
	(!B0 * YN)	0.00001	0.00001	0.00001
	(!B0 * YN)	-0.00007	-0.00006	-0.00006
	(!B0 * YN)	-0.00013	-0.00013	-0.00012

NAND4BBX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX4H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX4H7R	0.00100	0.00092	0.00173	0.00200	0.06511

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX4H7R	0.00000	0.42670	1.09818

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX4H7R	A0->YN (RR)	0.03522	0.11107	0.28006
	A1->YN (RR)	0.03523	0.11067	0.27924
	B0->YN (FR)	0.01517	0.10518	0.42747
	B1->YN (FR)	0.01371	0.10223	0.42460

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX4H7R	A0->YN (FF)	0.06200	0.21074	0.57798
	A1->YN (FF)	0.06007	0.20928	0.57782
	B0->YN (RF)	0.02975	0.18167	0.64801
	B1->YN (RF)	0.02549	0.17400	0.63214

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX4H7R	A0	0.00293	0.00308	0.00359
	A0	-0.00033	-0.00033	-0.00030
	A0	0.00038	0.00042	0.00043
	A0	0.00190	0.00205	0.00257
	A1	0.00304	0.00321	0.00374
	A1	-0.00033	-0.00033	-0.00031
	A1	0.00025	0.00030	0.00035
	A1	0.00203	0.00222	0.00272
	B0	0.00209	0.00228	0.00332
	B0	-0.00036	-0.00036	-0.00036
	B0	0.00013	0.00020	0.00026
	B0	-0.00014	0.00007	0.00108
	B1	0.00177	0.00198	0.00324
	B1	-0.00036	-0.00036	-0.00035
	B1	0.00005	0.00006	0.00015
	B1	-0.00015	0.00008	0.00130

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX4H7R	A0	0.00222	0.00240	0.00294
	A0	0.00031	0.00033	0.00034
	A0	-0.00043	-0.00042	-0.00038
	A0	0.00337	0.00354	0.00410
	A1	0.00189	0.00209	0.00265
	A1	0.00033	0.00033	0.00034
	A1	-0.00033	-0.00030	-0.00025
	A1	0.00297	0.00317	0.00375
	B0	0.00019	0.00032	0.00099
	B0	0.00036	0.00036	0.00037
	B0	-0.00021	-0.00020	-0.00013
	B0	0.00246	0.00257	0.00326
	B1	0.00018	0.00037	0.00141
	B1	0.00036	0.00036	0.00037
	B1	-0.00007	-0.00006	-0.00005
	B1	0.00207	0.00228	0.00334

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7R	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00028	0.00041	0.00090
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00004	0.00005	0.00005
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00007	-0.00006	-0.00006
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00116	0.00129	0.00178
	(A1 * !B1 * YN)	0.00028	0.00041	0.00090
	(A1 * !B1 * YN)	0.00004	0.00005	0.00005
	(A1 * !B1 * YN)	-0.00008	-0.00008	-0.00007
	(A1 * !B1 * YN)	0.00118	0.00131	0.00179
	(A1 * !B0 * B1 * YN)	0.00028	0.00041	0.00090
	(A1 * !B0 * B1 * YN)	0.00004	0.00005	0.00005
	(A1 * !B0 * B1 * YN)	-0.00008	-0.00007	-0.00006
	(A1 * !B0 * B1 * YN)	0.00117	0.00130	0.00178
	(!A1 * !B0 * !B1 * YN)	0.00043	0.00056	0.00104
	(!A1 * !B0 * !B1 * YN)	0.00004	0.00005	0.00005
	(!A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00006
	(!A1 * !B0 * !B1 * YN)	0.00131	0.00144	0.00191

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7R	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00128	0.00143	0.00196
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00005	-0.00005	-0.00004
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00006	0.00006	0.00007
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00042	0.00057	0.00110
	(A1 * !B1 * YN)	0.00128	0.00143	0.00196
	(A1 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(A1 * !B1 * YN)	0.00007	0.00008	0.00008
	(A1 * !B1 * YN)	0.00039	0.00054	0.00107
	(A1 * !B0 * B1 * YN)	0.00128	0.00143	0.00196
	(A1 * !B0 * B1 * YN)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * B1 * YN)	0.00006	0.00007	0.00008
	(A1 * !B0 * B1 * YN)	0.00040	0.00055	0.00108
	(!A1 * !B0 * !B1 * YN)	0.00114	0.00128	0.00182
	(!A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * !B1 * YN)	0.00006	0.00007	0.00007
	(!A1 * !B0 * !B1 * YN)	0.00027	0.00042	0.00095

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7R	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00041	0.00056	0.00109
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00004	0.00005	0.00005
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00011	-0.00011	-0.00011
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00126	0.00141	0.00194
	(!B0 * !B1 * YN)	0.00042	0.00055	0.00107
	(!B0 * !B1 * YN)	0.00004	0.00005	0.00005
	(!B0 * !B1 * YN)	-0.00015	-0.00015	-0.00014
	(!B0 * !B1 * YN)	0.00132	0.00146	0.00198

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7R	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00095	0.00110	0.00165
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00005	-0.00004	-0.00004
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00011	0.00011	0.00012
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00009	0.00025	0.00080
	(!B0 * !B1 * YN)	0.00100	0.00115	0.00170
	(!B0 * !B1 * YN)	-0.00005	-0.00004	-0.00004
	(!B0 * !B1 * YN)	0.00014	0.00015	0.00015
	(!B0 * !B1 * YN)	0.00011	0.00026	0.00081

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7R	(A1 * B1 * YN)	-0.00042	-0.00042	-0.00041
	(A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * YN)	0.00008	0.00008	0.00008
	(A1 * B1 * YN)	0.00017	0.00017	0.00017
	(A1 * !B1 * YN)	-0.00042	-0.00042	-0.00042
	(A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * YN)	0.00012	0.00012	0.00012
	(A1 * !B1 * YN)	0.00018	0.00018	0.00019
	(A0 * !A1 * B1 * YN)	-0.00045	-0.00045	-0.00045
	(A0 * !A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * YN)	0.00008	0.00009	0.00009
	(A0 * !A1 * B1 * YN)	0.00014	0.00014	0.00016
	(A0 * !A1 * !B1 * YN)	-0.00049	-0.00049	-0.00049
	(A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * YN)	0.00013	0.00013	0.00013
	(A0 * !A1 * !B1 * YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * YN)	-0.00042	-0.00041	-0.00041
	(!A0 * !A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * YN)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B1 * YN)	0.00044	0.00044	0.00044

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7R	(A1 * B1 * YN)	0.00042	0.00042	0.00042
	(A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A1 * B1 * YN)	-0.00008	-0.00008	-0.00008
	(A1 * B1 * YN)	-0.00017	-0.00016	-0.00016
	(A1 * !B1 * YN)	0.00042	0.00043	0.00044
	(A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B1 * YN)	-0.00012	-0.00012	-0.00012
	(A1 * !B1 * YN)	-0.00019	-0.00018	-0.00018
	(A0 * !A1 * B1 * YN)	0.00045	0.00045	0.00045
	(A0 * !A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * YN)	-0.00009	-0.00008	-0.00008
	(A0 * !A1 * B1 * YN)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B1 * YN)	0.00050	0.00050	0.00050
	(A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !B1 * YN)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B1 * YN)	0.00042	0.00043	0.00045
	(!A0 * !A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * YN)	-0.00042	-0.00040	-0.00035

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7R	(A1 * B0 * YN)	-0.00058	-0.00058	-0.00058
	(A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * YN)	0.00006	0.00007	0.00008
	(A1 * B0 * YN)	0.00012	0.00014	0.00014
	(A0 * !A1 * B0 * YN)	-0.00059	-0.00059	-0.00059
	(A0 * !A1 * B0 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B0 * YN)	0.00005	0.00007	0.00007
	(A0 * !A1 * B0 * YN)	0.00012	0.00013	0.00014
	(!B0 * YN)	-0.00058	-0.00058	-0.00058
	(!B0 * YN)	-0.00001	-0.00001	-0.00001
	(!B0 * YN)	0.00008	0.00008	0.00010
	(!B0 * YN)	0.00011	0.00012	0.00012

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX4H7R	(A1 * B0 * YN)	0.00058	0.00058	0.00058
	(A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A1 * B0 * YN)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * YN)	-0.00012	-0.00012	-0.00011
	(A0 * !A1 * B0 * YN)	0.00059	0.00059	0.00059
	(A0 * !A1 * B0 * YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * YN)	-0.00007	-0.00007	-0.00005
	(A0 * !A1 * B0 * YN)	-0.00012	-0.00012	-0.00012
	(!B0 * YN)	0.00058	0.00058	0.00058
	(!B0 * YN)	0.00001	0.00001	0.00001
	(!B0 * YN)	-0.00009	-0.00008	-0.00008
	(!B0 * YN)	-0.00012	-0.00012	-0.00011

NAND4BBX6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NAND4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
0	x	0	x	1
0	x	1	0	1
0	0	1	1	0
x	1	1	1	1
1	x	x	x	1

Footprint

Cell Name	Area
NAND4BBX6H7R	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
NAND4BBX6H7R	0.00101	0.00092	0.00272	0.00277	0.10124

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BBX6H7R	0.00000	0.54873	1.50668

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX6H7R	A0->YN (RR)	0.03541	0.11536	0.29353
	A1->YN (RR)	0.03527	0.11490	0.29371
	B0->YN (FR)	0.01460	0.10643	0.43634
	B1->YN (FR)	0.01247	0.10238	0.43319

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BBX6H7R	A0->YN (FF)	0.06191	0.21842	0.60442
	A1->YN (FF)	0.05844	0.21587	0.60444
	B0->YN (RF)	0.02892	0.18608	0.66714
	B1->YN (RF)	0.02252	0.17659	0.64977

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX6H7R	A0	0.00429	0.00446	0.00509
	A0	-0.00051	-0.00051	-0.00050
	A0	0.00064	0.00064	0.00065
	A0	0.00230	0.00248	0.00310
	A1	0.00417	0.00437	0.00497
	A1	-0.00051	-0.00051	-0.00050
	A1	0.00039	0.00046	0.00051
	A1	0.00228	0.00249	0.00309
	B0	0.00319	0.00353	0.00508
	B0	-0.00055	-0.00054	-0.00050
	B0	0.00012	0.00029	0.00037
	B0	-0.00030	0.00001	0.00152
	B1	0.00251	0.00285	0.00480
	B1	-0.00055	-0.00054	-0.00052
	B1	0.00007	0.00009	0.00013
	B1	-0.00031	0.00005	0.00195

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BBX6H7R	A0	0.00291	0.00313	0.00374
	A0	0.00050	0.00051	0.00051
	A0	-0.00065	-0.00064	-0.00064
	A0	0.00510	0.00531	0.00593
	A1	0.00239	0.00261	0.00323
	A1	0.00050	0.00051	0.00051
	A1	-0.00051	-0.00046	-0.00027
	A1	0.00421	0.00463	0.00526
	B0	0.00008	0.00026	0.00129
	B0	0.00054	0.00055	0.00055
	B0	-0.00032	-0.00029	-0.00012
	B0	0.00371	0.00388	0.00494
	B1	0.00011	0.00040	0.00205
	B1	0.00054	0.00054	0.00055
	B1	-0.00010	-0.00009	-0.00007
	B1	0.00293	0.00320	0.00489

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7R	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00048	0.00062	0.00118
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00006	0.00006	0.00006
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00008	-0.00007	-0.00007
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00136	0.00149	0.00204
	(A1 * !B1 * YN)	0.00048	0.00062	0.00118
	(A1 * !B1 * YN)	0.00006	0.00006	0.00006
	(A1 * !B1 * YN)	-0.00010	-0.00009	-0.00008
	(A1 * !B1 * YN)	0.00135	0.00149	0.00204
	(A1 * !B0 * B1 * YN)	0.00048	0.00062	0.00117
	(A1 * !B0 * B1 * YN)	0.00006	0.00006	0.00006
	(A1 * !B0 * B1 * YN)	-0.00010	-0.00009	-0.00008
	(A1 * !B0 * B1 * YN)	0.00135	0.00149	0.00203
	(!A1 * !B0 * !B1 * YN)	0.00068	0.00082	0.00136
	(!A1 * !B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !B1 * YN)	-0.00010	-0.00009	-0.00008
	(!A1 * !B0 * !B1 * YN)	0.00156	0.00170	0.00223

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7R	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00156	0.00172	0.00231
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00007	0.00007	0.00008
	(A1 * B0 * B1 * YN) + (!A1 * B0 * !B1 * YN) + (!A1 * !B0 * B1 * YN)	0.00071	0.00088	0.00147
	(A1 * !B1 * YN)	0.00155	0.00171	0.00231
	(A1 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * !B1 * YN)	0.00008	0.00009	0.00010
	(A1 * !B1 * YN)	0.00069	0.00085	0.00145
	(A1 * !B0 * B1 * YN)	0.00155	0.00171	0.00231
	(A1 * !B0 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * B1 * YN)	0.00008	0.00009	0.00010
	(A1 * !B0 * B1 * YN)	0.00069	0.00085	0.00145
	(!A1 * !B0 * !B1 * YN)	0.00137	0.00153	0.00213
	(!A1 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !B1 * YN)	0.00008	0.00009	0.00010
	(!A1 * !B0 * !B1 * YN)	0.00049	0.00066	0.00125

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7R	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00050	0.00067	0.00126
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00006	0.00006	0.00006
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00021	-0.00020	-0.00020
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00149	0.00164	0.00225
	(!B0 * !B1 * YN)	0.00050	0.00066	0.00124
	(!B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(!B0 * !B1 * YN)	-0.00027	-0.00026	-0.00026
	(!B0 * !B1 * YN)	0.00158	0.00174	0.00233

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7R	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00124	0.00141	0.00203
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00020	0.00020	0.00021
	(A0 * B0 * YN) + (A0 * !B0 * B1 * YN) + (!A0 * B0 * !B1 * YN) + (!A0 * !B0 * B1 * YN)	0.00026	0.00043	0.00105
	(!B0 * !B1 * YN)	0.00130	0.00147	0.00209
	(!B0 * !B1 * YN)	-0.00006	-0.00006	-0.00005
	(!B0 * !B1 * YN)	0.00026	0.00026	0.00027
	(!B0 * !B1 * YN)	0.00027	0.00043	0.00105

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7R	(A1 * B1 * YN)	-0.00064	-0.00064	-0.00063
	(A1 * B1 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * YN)	0.00016	0.00016	0.00017
	(A1 * B1 * YN)	0.00026	0.00027	0.00027
	(A1 * !B1 * YN)	-0.00064	-0.00064	-0.00064
	(A1 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * !B1 * YN)	0.00020	0.00021	0.00021
	(A1 * !B1 * YN)	0.00028	0.00028	0.00029
	(A0 * !A1 * B1 * YN)	-0.00075	-0.00074	-0.00074
	(A0 * !A1 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * YN)	0.00012	0.00015	0.00016
	(A0 * !A1 * B1 * YN)	0.00019	0.00020	0.00023
	(A0 * !A1 * !B1 * YN)	-0.00081	-0.00080	-0.00079
	(A0 * !A1 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B1 * YN)	0.00020	0.00021	0.00021
	(A0 * !A1 * !B1 * YN)	0.00020	0.00021	0.00021
	(!A0 * !A1 * !B1 * YN)	-0.00066	-0.00065	-0.00064
	(!A0 * !A1 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * YN)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B1 * YN)	0.00074	0.00075	0.00075

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7R	(A1 * B1 * YN)	0.00064	0.00064	0.00064
	(A1 * B1 * YN)	0.00002	0.00002	0.00002
	(A1 * B1 * YN)	-0.00016	-0.00015	-0.00014
	(A1 * B1 * YN)	-0.00027	-0.00027	-0.00026
	(A1 * !B1 * YN)	0.00064	0.00065	0.00066
	(A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B1 * YN)	-0.00021	-0.00021	-0.00020
	(A1 * !B1 * YN)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * B1 * YN)	0.00074	0.00074	0.00075
	(A0 * !A1 * B1 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * YN)	-0.00015	-0.00014	-0.00012
	(A0 * !A1 * B1 * YN)	-0.00020	-0.00019	-0.00019
	(A0 * !A1 * !B1 * YN)	0.00082	0.00084	0.00085
	(A0 * !A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * YN)	-0.00021	-0.00021	-0.00020
	(A0 * !A1 * !B1 * YN)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !B1 * YN)	0.00066	0.00069	0.00076
	(!A0 * !A1 * !B1 * YN)	0.00002	0.00002	0.00005
	(!A0 * !A1 * !B1 * YN)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B1 * YN)	-0.00071	-0.00066	-0.00058

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7R	(A1 * B0 * YN)	-0.00085	-0.00084	-0.00083
	(A1 * B0 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * YN)	0.00010	0.00011	0.00013
	(A1 * B0 * YN)	0.00017	0.00019	0.00020
	(A0 * !A1 * B0 * YN)	-0.00086	-0.00086	-0.00085
	(A0 * !A1 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * YN)	0.00010	0.00011	0.00011
	(A0 * !A1 * B0 * YN)	0.00017	0.00018	0.00019
	(!B0 * YN)	-0.00085	-0.00085	-0.00084
	(!B0 * YN)	-0.00002	-0.00002	-0.00001
	(!B0 * YN)	0.00011	0.00011	0.00013
	(!B0 * YN)	0.00015	0.00016	0.00017

Passive power(pJ) for B1 falling (conditional):

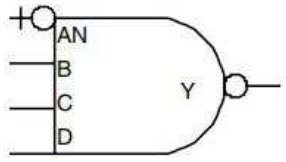
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BBX6H7R	(A1 * B0 * YN)	0.00084	0.00085	0.00085
	(A1 * B0 * YN)	0.00001	0.00002	0.00002
	(A1 * B0 * YN)	-0.00010	-0.00010	-0.00008
	(A1 * B0 * YN)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * B0 * YN)	0.00085	0.00086	0.00086
	(A0 * !A1 * B0 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * YN)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B0 * YN)	-0.00017	-0.00017	-0.00016
	(!B0 * YN)	0.00084	0.00085	0.00085
	(!B0 * YN)	0.00001	0.00002	0.00002
	(!B0 * YN)	-0.00011	-0.00010	-0.00009
	(!B0 * YN)	-0.00017	-0.00016	-0.00015

NAND4BX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX0P5H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX0P5H7R	0.00081	0.00064	0.00066	0.00077	0.01805

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX0P5H7R	0.00000	0.13377	0.31608

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX0P5H7R	AN->Y (RR)	0.03708	0.10553	0.26110
	B->Y (FR)	0.02299	0.11531	0.42848
	C->Y (FR)	0.02169	0.11276	0.42572
	D->Y (FR)	0.02083	0.11070	0.42440

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX0P5H7R	AN->Y (FF)	0.06721	0.20658	0.55491
	B->Y (RF)	0.04791	0.19342	0.62026
	C->Y (RF)	0.04521	0.19609	0.65049
	D->Y (RF)	0.04260	0.19075	0.63947

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX0P5H7R	AN	0.00099	0.00109	0.00149
	AN	-0.00007	-0.00007	-0.00006
	AN	0.00011	0.00011	0.00011
	AN	0.00093	0.00105	0.00144
	B	0.00093	0.00099	0.00128
	B	-0.00009	-0.00009	-0.00009
	B	0.00009	0.00009	0.00011
	B	0.00001	0.00007	0.00035
	C	0.00081	0.00087	0.00116
	C	-0.00009	-0.00009	-0.00008
	C	0.00005	0.00005	0.00005
	C	0.00004	0.00009	0.00037
	D	0.00074	0.00080	0.00112
	D	-0.00009	-0.00009	-0.00009
	D	0.00001	0.00002	0.00002
	D	0.00001	0.00007	0.00038

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX0P5H7R	AN	0.00083	0.00096	0.00139
	AN	0.00007	0.00007	0.00007
	AN	-0.00011	-0.00011	-0.00011
	AN	0.00091	0.00104	0.00147
	B	-0.00005	-0.00002	0.00012
	B	0.00009	0.00009	0.00009
	B	-0.00010	-0.00009	-0.00009
	B	0.00089	0.00093	0.00107
	C	-0.00002	0.00001	0.00017
	C	0.00009	0.00009	0.00010
	C	-0.00005	-0.00005	-0.00005
	C	0.00078	0.00081	0.00097
	D	-0.00003	0.00003	0.00027
	D	0.00009	0.00009	0.00009
	D	-0.00002	-0.00002	-0.00001
	D	0.00071	0.00076	0.00101

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7R	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00003	0.00014	0.00053
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00003	-0.00003	-0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00070	0.00081	0.00120
	(B * !C * !D * Y)	0.00003	0.00014	0.00053
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00002
	(B * !C * !D * Y)	0.00070	0.00081	0.00120
	(!B * !D * Y)	0.00003	0.00014	0.00053
	(!B * !D * Y)	0.00002	0.00002	0.00002
	(!B * !D * Y)	-0.00003	-0.00002	-0.00002
	(!B * !D * Y)	0.00069	0.00080	0.00120
	(!B * !C * D * Y)	0.00003	0.00014	0.00053
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	-0.00003	-0.00002	-0.00002
	(!B * !C * D * Y)	0.00069	0.00080	0.00120

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7R	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00069	0.00081	0.00124
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00003	0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00015	0.00058
	(B * !C * !D * Y)	0.00069	0.00081	0.00124
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	0.00002	0.00003	0.00003
	(B * !C * !D * Y)	0.00002	0.00015	0.00057
	(!B * !D * Y)	0.00069	0.00081	0.00124
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	0.00002	0.00002	0.00003
	(!B * !D * Y)	0.00003	0.00015	0.00058
	(!B * !C * D * Y)	0.00069	0.00081	0.00124
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	0.00002	0.00002	0.00003
	(!B * !C * D * Y)	0.00003	0.00015	0.00058

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7R	(AN * C * D * Y)	-0.00012	-0.00012	-0.00012
	(AN * C * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * D * Y)	0.00003	0.00003	0.00003
	(AN * C * D * Y)	0.00011	0.00011	0.00011
	(AN * C * !D * Y)	-0.00012	-0.00012	-0.00012
	(AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * !D * Y)	0.00004	0.00004	0.00004
	(AN * C * !D * Y)	0.00011	0.00011	0.00011
	(AN * !C * D * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * D * Y)	0.00004	0.00004	0.00004
	(AN * !C * D * Y)	0.00011	0.00011	0.00011
	(AN * !C * !D * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * !D * Y)	0.00004	0.00004	0.00004
	(AN * !C * !D * Y)	0.00011	0.00011	0.00011
	(!AN * C * !D * Y)	-0.00016	-0.00015	-0.00015
	(!AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * C * !D * Y)	0.00016	0.00016	0.00016
	(!AN * !C * D * Y)	-0.00016	-0.00015	-0.00015
	(!AN * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * D * Y)	0.00016	0.00016	0.00016
	(!AN * !C * !D * Y)	-0.00016	-0.00015	-0.00015
	(!AN * !C * !D * Y)	-0.00000	0.00001	0.00011
	(!AN * !C * !D * Y)	0.00001	0.00001	0.00003
	(!AN * !C * !D * Y)	0.00015	0.00016	0.00016

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7R	(AN * C * D * Y)	0.00012	0.00012	0.00012
	(AN * C * D * Y)	0.00000	0.00000	0.00000
	(AN * C * D * Y)	-0.00003	-0.00003	-0.00003
	(AN * C * D * Y)	-0.00011	-0.00011	-0.00011
	(AN * C * !D * Y)	0.00012	0.00012	0.00012
	(AN * C * !D * Y)	0.00000	0.00000	0.00000
	(AN * C * !D * Y)	-0.00004	-0.00004	-0.00004
	(AN * C * !D * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * D * Y)	0.00012	0.00012	0.00012
	(AN * !C * D * Y)	0.00000	0.00000	0.00000
	(AN * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(AN * !C * D * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * !D * Y)	0.00012	0.00012	0.00012
	(AN * !C * !D * Y)	0.00000	0.00000	0.00000
	(AN * !C * !D * Y)	-0.00004	-0.00004	-0.00004
	(AN * !C * !D * Y)	-0.00011	-0.00011	-0.00011
	(!AN * C * !D * Y)	0.00016	0.00016	0.00016
	(!AN * C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !D * Y)	-0.00016	-0.00015	-0.00013
	(!AN * !C * D * Y)	0.00016	0.00016	0.00016
	(!AN * !C * D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * D * Y)	-0.00016	-0.00015	-0.00014
	(!AN * !C * !D * Y)	0.00015	0.00015	0.00016
	(!AN * !C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !D * Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7R	(AN * B * D * Y)	-0.00014	-0.00014	-0.00013
	(AN * B * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * D * Y)	0.00002	0.00003	0.00003
	(AN * B * D * Y)	0.00006	0.00007	0.00007
	(AN * B * !D * Y)	-0.00014	-0.00014	-0.00013
	(AN * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * !D * Y)	0.00004	0.00004	0.00004
	(AN * B * !D * Y)	0.00007	0.00007	0.00007
	(!B * D * Y)	-0.00014	-0.00014	-0.00014
	(!B * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * D * Y)	0.00003	0.00003	0.00003
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00014	-0.00014	-0.00014
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00004	0.00004	0.00004
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!AN * B * !D * Y)	-0.00014	-0.00014	-0.00014
	(!AN * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * B * !D * Y)	0.00001	0.00001	0.00001
	(!AN * B * !D * Y)	0.00014	0.00015	0.00015

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7R	(AN * B * D * Y)	0.00013	0.00014	0.00014
	(AN * B * D * Y)	0.00000	0.00000	0.00000
	(AN * B * D * Y)	-0.00003	-0.00003	-0.00002
	(AN * B * D * Y)	-0.00007	-0.00006	-0.00006
	(AN * B * !D * Y)	0.00014	0.00014	0.00014
	(AN * B * !D * Y)	0.00000	0.00000	0.00000
	(AN * B * !D * Y)	-0.00004	-0.00004	-0.00004
	(AN * B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!B * D * Y)	0.00014	0.00014	0.00014
	(!B * D * Y)	0.00000	0.00000	0.00000
	(!B * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00014	0.00014	0.00014
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!AN * B * !D * Y)	0.00014	0.00015	0.00016
	(!AN * B * !D * Y)	0.00000	0.00000	0.00001
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * B * !D * Y)	-0.00014	-0.00013	-0.00013

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7R	(AN * B * C * Y)	-0.00022	-0.00021	-0.00021
	(AN * B * C * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * C * Y)	0.00002	0.00002	0.00002
	(AN * B * C * Y)	0.00007	0.00007	0.00007
	(!C * Y)	-0.00022	-0.00021	-0.00021
	(!C * Y)	-0.00000	-0.00000	-0.00000
	(!C * Y)	0.00001	0.00002	0.00002
	(!C * Y)	0.00007	0.00007	0.00007
	(!B * C * Y)	-0.00021	-0.00021	-0.00021
	(!B * C * Y)	-0.00000	0.00000	0.00003
	(!B * C * Y)	0.00001	0.00002	0.00002
	(!B * C * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for D falling (conditional):

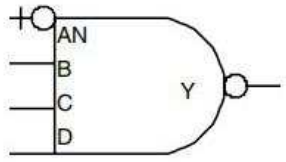
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P5H7R	(AN * B * C * Y)	0.00021	0.00021	0.00022
	(AN * B * C * Y)	0.00000	0.00000	0.00000
	(AN * B * C * Y)	-0.00002	-0.00002	-0.00002
	(AN * B * C * Y)	-0.00007	-0.00007	-0.00007
	(!C * Y)	0.00021	0.00021	0.00022
	(!C * Y)	0.00000	0.00000	0.00000
	(!C * Y)	-0.00002	-0.00002	-0.00001
	(!C * Y)	-0.00007	-0.00007	-0.00007
	(!B * C * Y)	0.00021	0.00021	0.00022
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00002	-0.00002	-0.00001
	(!B * C * Y)	-0.00007	-0.00007	-0.00007

NAND4BX0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX0P7H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX0P7H7R	0.00083	0.00069	0.00071	0.00081	0.02062

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX0P7H7R	0.00000	0.13897	0.34389

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX0P7H7R	AN->Y (RR)	0.03600	0.10544	0.26331
	B->Y (FR)	0.02159	0.11419	0.43087
	C->Y (FR)	0.02040	0.11169	0.42873
	D->Y (FR)	0.01933	0.10942	0.42673

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX0P7H7R	AN->Y (FF)	0.06432	0.20515	0.55705
	B->Y (RF)	0.04460	0.19116	0.62265
	C->Y (RF)	0.04207	0.19379	0.65074
	D->Y (RF)	0.03896	0.18771	0.63946

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX0P7H7R	AN	0.00106	0.00117	0.00156
	AN	-0.00009	-0.00009	-0.00009
	AN	0.00012	0.00012	0.00012
	AN	0.00094	0.00105	0.00144
	B	0.00100	0.00107	0.00139
	B	-0.00011	-0.00011	-0.00009
	B	0.00010	0.00010	0.00010
	B	0.00000	0.00006	0.00037
	C	0.00087	0.00093	0.00125
	C	-0.00011	-0.00011	-0.00010
	C	0.00005	0.00006	0.00006
	C	0.00001	0.00007	0.00038
	D	0.00079	0.00086	0.00122
	D	-0.00011	-0.00011	-0.00010
	D	0.00001	0.00002	0.00002
	D	-0.00001	0.00006	0.00041

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX0P7H7R	AN	0.00085	0.00098	0.00141
	AN	0.00009	0.00009	0.00009
	AN	-0.00012	-0.00012	-0.00012
	AN	0.00101	0.00114	0.00157
	B	-0.00006	-0.00003	0.00013
	B	0.00010	0.00011	0.00011
	B	-0.00010	-0.00010	-0.00010
	B	0.00098	0.00102	0.00118
	C	-0.00003	0.00001	0.00020
	C	0.00011	0.00011	0.00011
	C	-0.00006	-0.00006	-0.00005
	C	0.00085	0.00089	0.00107
	D	-0.00004	0.00002	0.00031
	D	0.00011	0.00011	0.00011
	D	-0.00002	-0.00002	-0.00001
	D	0.00077	0.00082	0.00111

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7R	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00004	0.00015	0.00053
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00003	-0.00003	-0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00072	0.00082	0.00121
	(B * !C * !D * Y)	0.00004	0.00015	0.00054
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00002
	(B * !C * !D * Y)	0.00072	0.00082	0.00121
	(!B * !D * Y)	0.00004	0.00015	0.00054
	(!B * !D * Y)	0.00002	0.00002	0.00002
	(!B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * Y)	0.00071	0.00082	0.00120
	(!B * !C * D * Y)	0.00004	0.00015	0.00054
	(!B * !C * D * Y)	0.00002	0.00002	0.00002
	(!B * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * D * Y)	0.00071	0.00082	0.00120

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7R	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00071	0.00083	0.00126
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00003	0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00003	0.00015	0.00058
	(B * !C * !D * Y)	0.00070	0.00083	0.00126
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	0.00002	0.00003	0.00003
	(B * !C * !D * Y)	0.00003	0.00015	0.00058
	(!B * !D * Y)	0.00070	0.00083	0.00125
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	0.00003	0.00003	0.00003
	(!B * !D * Y)	0.00004	0.00016	0.00059
	(!B * !C * D * Y)	0.00070	0.00083	0.00125
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !C * D * Y)	0.00003	0.00003	0.00003
	(!B * !C * D * Y)	0.00004	0.00016	0.00059

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7R	(AN * C * D * Y)	-0.00013	-0.00013	-0.00013
	(AN * C * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * D * Y)	0.00003	0.00003	0.00004
	(AN * C * D * Y)	0.00011	0.00011	0.00011
	(AN * C * !D * Y)	-0.00013	-0.00013	-0.00013
	(AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * !D * Y)	0.00004	0.00005	0.00005
	(AN * C * !D * Y)	0.00011	0.00011	0.00011
	(AN * !C * D * Y)	-0.00013	-0.00013	-0.00013
	(AN * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * D * Y)	0.00005	0.00005	0.00005
	(AN * !C * D * Y)	0.00011	0.00011	0.00011
	(AN * !C * !D * Y)	-0.00013	-0.00013	-0.00013
	(AN * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * !D * Y)	0.00005	0.00005	0.00005
	(AN * !C * !D * Y)	0.00011	0.00011	0.00011
	(!AN * C * !D * Y)	-0.00017	-0.00017	-0.00017
	(!AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * C * !D * Y)	0.00017	0.00017	0.00017
	(!AN * !C * D * Y)	-0.00017	-0.00017	-0.00017
	(!AN * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * D * Y)	0.00018	0.00018	0.00018
	(!AN * !C * !D * Y)	-0.00017	-0.00017	-0.00016
	(!AN * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * !D * Y)	0.00017	0.00017	0.00017

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7R	(AN * C * D * Y)	0.00013	0.00013	0.00013
	(AN * C * D * Y)	0.00000	0.00000	0.00000
	(AN * C * D * Y)	-0.00003	-0.00003	-0.00003
	(AN * C * D * Y)	-0.00011	-0.00011	-0.00011
	(AN * C * !D * Y)	0.00013	0.00013	0.00013
	(AN * C * !D * Y)	0.00000	0.00000	0.00000
	(AN * C * !D * Y)	-0.00005	-0.00005	-0.00004
	(AN * C * !D * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * D * Y)	0.00013	0.00013	0.00013
	(AN * !C * D * Y)	0.00000	0.00000	0.00000
	(AN * !C * D * Y)	-0.00005	-0.00005	-0.00005
	(AN * !C * D * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * !D * Y)	0.00013	0.00013	0.00013
	(AN * !C * !D * Y)	0.00000	0.00000	0.00000
	(AN * !C * !D * Y)	-0.00005	-0.00005	-0.00005
	(AN * !C * !D * Y)	-0.00011	-0.00011	-0.00011
	(!AN * C * !D * Y)	0.00017	0.00017	0.00017
	(!AN * C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !D * Y)	-0.00017	-0.00016	-0.00014
	(!AN * !C * D * Y)	0.00017	0.00017	0.00017
	(!AN * !C * D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * D * Y)	-0.00017	-0.00016	-0.00015
	(!AN * !C * !D * Y)	0.00016	0.00017	0.00017
	(!AN * !C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !D * Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7R	(AN * B * D * Y)	-0.00015	-0.00015	-0.00015
	(AN * B * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * D * Y)	0.00003	0.00003	0.00004
	(AN * B * D * Y)	0.00006	0.00006	0.00007
	(AN * B * !D * Y)	-0.00015	-0.00015	-0.00015
	(AN * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * !D * Y)	0.00004	0.00004	0.00004
	(AN * B * !D * Y)	0.00007	0.00007	0.00007
	(!B * D * Y)	-0.00015	-0.00015	-0.00015
	(!B * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * D * Y)	0.00003	0.00003	0.00003
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00015	-0.00015	-0.00015
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00004	0.00004	0.00004
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!AN * B * !D * Y)	-0.00015	-0.00015	-0.00015
	(!AN * B * !D * Y)	-0.00000	-0.00000	0.00000
	(!AN * B * !D * Y)	0.00001	0.00001	0.00001
	(!AN * B * !D * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7R	(AN * B * D * Y)	0.00015	0.00015	0.00016
	(AN * B * D * Y)	0.00000	0.00000	0.00001
	(AN * B * D * Y)	-0.00003	-0.00003	-0.00003
	(AN * B * D * Y)	-0.00007	-0.00006	-0.00006
	(AN * B * !D * Y)	0.00015	0.00016	0.00016
	(AN * B * !D * Y)	0.00000	0.00000	0.00000
	(AN * B * !D * Y)	-0.00004	-0.00004	-0.00004
	(AN * B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!B * D * Y)	0.00015	0.00015	0.00015
	(!B * D * Y)	0.00000	0.00000	0.00000
	(!B * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00016	0.00016	0.00016
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!AN * B * !D * Y)	0.00015	0.00016	0.00017
	(!AN * B * !D * Y)	0.00000	0.00000	0.00000
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * B * !D * Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7R	(AN * B * C * Y)	-0.00023	-0.00023	-0.00023
	(AN * B * C * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * C * Y)	0.00001	0.00002	0.00002
	(AN * B * C * Y)	0.00007	0.00007	0.00008
	(!C * Y)	-0.00023	-0.00023	-0.00023
	(!C * Y)	-0.00000	-0.00000	-0.00000
	(!C * Y)	0.00002	0.00002	0.00003
	(!C * Y)	0.00007	0.00007	0.00007
	(!B * C * Y)	-0.00023	-0.00023	-0.00023
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00001	0.00002	0.00002
	(!B * C * Y)	0.00007	0.00007	0.00008

Passive power(pJ) for D falling (conditional):

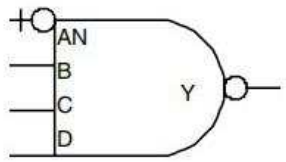
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX0P7H7R	(AN * B * C * Y)	0.00023	0.00023	0.00023
	(AN * B * C * Y)	0.00000	0.00000	0.00000
	(AN * B * C * Y)	-0.00002	-0.00002	-0.00001
	(AN * B * C * Y)	-0.00007	-0.00007	-0.00007
	(!C * Y)	0.00023	0.00023	0.00023
	(!C * Y)	0.00000	0.00000	0.00001
	(!C * Y)	-0.00002	-0.00002	-0.00002
	(!C * Y)	-0.00007	-0.00007	-0.00007
	(!B * C * Y)	0.00023	0.00023	0.00023
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00002	-0.00002	-0.00001
	(!B * C * Y)	-0.00007	-0.00007	-0.00007

NAND4BX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX1H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX1H7R	0.00081	0.00073	0.00074	0.00086	0.02440

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX1H7R	0.00000	0.14667	0.38769

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX1H7R	AN->Y (RR)	0.03455	0.10468	0.26353
	B->Y (FR)	0.01967	0.11162	0.42955
	C->Y (FR)	0.01833	0.10886	0.42689
	D->Y (FR)	0.01719	0.10640	0.42424

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX1H7R	AN->Y (FF)	0.06129	0.20462	0.56276
	B->Y (RF)	0.04107	0.18923	0.62742
	C->Y (RF)	0.03790	0.19118	0.65563
	D->Y (RF)	0.03447	0.18454	0.64285

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX1H7R	AN	0.00117	0.00128	0.00168
	AN	-0.00011	-0.00011	-0.00009
	AN	0.00015	0.00015	0.00015
	AN	0.00095	0.00107	0.00146
	B	0.00108	0.00117	0.00154
	B	-0.00013	-0.00013	-0.00012
	B	0.00012	0.00012	0.00012
	B	-0.00004	0.00003	0.00039
	C	0.00092	0.00100	0.00137
	C	-0.00013	-0.00013	-0.00013
	C	0.00007	0.00007	0.00007
	C	-0.00004	0.00003	0.00040
	D	0.00082	0.00090	0.00134
	D	-0.00013	-0.00013	-0.00012
	D	0.00001	0.00002	0.00003
	D	-0.00005	0.00004	0.00046

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX1H7R	AN	0.00089	0.00101	0.00143
	AN	0.00011	0.00011	0.00011
	AN	-0.00015	-0.00015	-0.00015
	AN	0.00114	0.00127	0.00170
	B	-0.00007	-0.00003	0.00016
	B	0.00013	0.00013	0.00013
	B	-0.00012	-0.00012	-0.00012
	B	0.00109	0.00114	0.00133
	C	-0.00003	0.00001	0.00024
	C	0.00013	0.00013	0.00013
	C	-0.00007	-0.00007	-0.00007
	C	0.00095	0.00099	0.00123
	D	-0.00004	0.00003	0.00037
	D	0.00013	0.00013	0.00013
	D	-0.00002	-0.00002	-0.00001
	D	0.00083	0.00089	0.00125

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7R	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00006	0.00017	0.00055
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00003	0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00003	-0.00003	-0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00076	0.00086	0.00124
	(B * !C * !D * Y)	0.00006	0.00017	0.00055
	(B * !C * !D * Y)	0.00002	0.00003	0.00003
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00002
	(B * !C * !D * Y)	0.00076	0.00086	0.00124
	(!B * !D * Y)	0.00006	0.00017	0.00055
	(!B * !D * Y)	0.00002	0.00003	0.00003
	(!B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * Y)	0.00075	0.00085	0.00123
	(!B * !C * D * Y)	0.00006	0.00017	0.00055
	(!B * !C * D * Y)	0.00002	0.00003	0.00003
	(!B * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * D * Y)	0.00075	0.00085	0.00123

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7R	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00072	0.00084	0.00126
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00003	-0.00003	-0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00003	0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00004	0.00015	0.00057
	(B * !C * !D * Y)	0.00072	0.00084	0.00126
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00002
	(B * !C * !D * Y)	0.00002	0.00003	0.00003
	(B * !C * !D * Y)	0.00003	0.00015	0.00057
	(!B * !D * Y)	0.00072	0.00084	0.00126
	(!B * !D * Y)	-0.00003	-0.00003	-0.00002
	(!B * !D * Y)	0.00003	0.00003	0.00003
	(!B * !D * Y)	0.00004	0.00016	0.00058
	(!B * !C * D * Y)	0.00072	0.00084	0.00126
	(!B * !C * D * Y)	-0.00003	-0.00003	-0.00002
	(!B * !C * D * Y)	0.00003	0.00003	0.00003
	(!B * !C * D * Y)	0.00004	0.00016	0.00058

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7R	(AN * C * D * Y)	-0.00016	-0.00016	-0.00016
	(AN * C * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * D * Y)	0.00004	0.00004	0.00004
	(AN * C * D * Y)	0.00011	0.00011	0.00011
	(AN * C * !D * Y)	-0.00016	-0.00016	-0.00016
	(AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * C * !D * Y)	0.00005	0.00005	0.00005
	(AN * C * !D * Y)	0.00011	0.00011	0.00011
	(AN * !C * D * Y)	-0.00016	-0.00016	-0.00016
	(AN * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * D * Y)	0.00005	0.00005	0.00005
	(AN * !C * D * Y)	0.00011	0.00011	0.00011
	(AN * !C * !D * Y)	-0.00016	-0.00016	-0.00016
	(AN * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * !C * !D * Y)	0.00005	0.00005	0.00005
	(AN * !C * !D * Y)	0.00011	0.00011	0.00011
	(!AN * C * !D * Y)	-0.00020	-0.00020	-0.00020
	(!AN * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * C * !D * Y)	0.00017	0.00017	0.00017
	(!AN * !C * D * Y)	-0.00020	-0.00020	-0.00020
	(!AN * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * D * Y)	0.00018	0.00018	0.00018
	(!AN * !C * !D * Y)	-0.00020	-0.00020	-0.00020
	(!AN * !C * !D * Y)	-0.00000	0.00002	0.00013
	(!AN * !C * !D * Y)	0.00001	0.00002	0.00004
	(!AN * !C * !D * Y)	0.00016	0.00017	0.00017

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7R	(AN * C * D * Y)	0.00016	0.00016	0.00017
	(AN * C * D * Y)	0.00000	0.00000	0.00000
	(AN * C * D * Y)	-0.00004	-0.00004	-0.00004
	(AN * C * D * Y)	-0.00011	-0.00011	-0.00011
	(AN * C * !D * Y)	0.00016	0.00016	0.00017
	(AN * C * !D * Y)	0.00000	0.00000	0.00000
	(AN * C * !D * Y)	-0.00005	-0.00005	-0.00005
	(AN * C * !D * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * D * Y)	0.00016	0.00016	0.00017
	(AN * !C * D * Y)	0.00000	0.00000	0.00000
	(AN * !C * D * Y)	-0.00005	-0.00005	-0.00005
	(AN * !C * D * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * !D * Y)	0.00016	0.00016	0.00017
	(AN * !C * !D * Y)	0.00000	0.00000	0.00000
	(AN * !C * !D * Y)	-0.00005	-0.00005	-0.00005
	(AN * !C * !D * Y)	-0.00011	-0.00011	-0.00011
	(!AN * C * !D * Y)	0.00020	0.00020	0.00020
	(!AN * C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !D * Y)	-0.00017	-0.00016	-0.00014
	(!AN * !C * D * Y)	0.00020	0.00020	0.00020
	(!AN * !C * D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * D * Y)	-0.00017	-0.00016	-0.00015
	(!AN * !C * !D * Y)	0.00020	0.00020	0.00020
	(!AN * !C * !D * Y)	0.00000	0.00000	0.00000
	(!AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !D * Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7R	(AN * B * D * Y)	-0.00016	-0.00016	-0.00016
	(AN * B * D * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * D * Y)	0.00004	0.00004	0.00004
	(AN * B * D * Y)	0.00006	0.00007	0.00007
	(AN * B * !D * Y)	-0.00016	-0.00016	-0.00016
	(AN * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * !D * Y)	0.00005	0.00005	0.00005
	(AN * B * !D * Y)	0.00007	0.00007	0.00007
	(!B * D * Y)	-0.00016	-0.00016	-0.00016
	(!B * D * Y)	-0.00000	0.00001	0.00010
	(!B * D * Y)	0.00004	0.00004	0.00004
	(!B * D * Y)	0.00006	0.00006	0.00007
	(!B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!AN * B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!AN * B * !D * Y)	-0.00001	-0.00000	-0.00000
	(!AN * B * !D * Y)	0.00001	0.00001	0.00001
	(!AN * B * !D * Y)	0.00018	0.00019	0.00019

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7R	(AN * B * D * Y)	0.00016	0.00016	0.00016
	(AN * B * D * Y)	0.00000	0.00000	0.00000
	(AN * B * D * Y)	-0.00004	-0.00004	-0.00004
	(AN * B * D * Y)	-0.00007	-0.00007	-0.00006
	(AN * B * !D * Y)	0.00016	0.00017	0.00017
	(AN * B * !D * Y)	0.00000	0.00000	0.00000
	(AN * B * !D * Y)	-0.00005	-0.00005	-0.00005
	(AN * B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!B * D * Y)	0.00016	0.00016	0.00016
	(!B * D * Y)	0.00000	0.00000	0.00000
	(!B * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00016	0.00016	0.00017
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!AN * B * !D * Y)	0.00016	0.00017	0.00018
	(!AN * B * !D * Y)	0.00000	0.00001	0.00001
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * B * !D * Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7R	(AN * B * C * Y)	-0.00025	-0.00025	-0.00025
	(AN * B * C * Y)	-0.00000	-0.00000	-0.00000
	(AN * B * C * Y)	0.00002	0.00003	0.00003
	(AN * B * C * Y)	0.00006	0.00007	0.00007
	(!C * Y)	-0.00025	-0.00025	-0.00025
	(!C * Y)	-0.00000	-0.00000	-0.00000
	(!C * Y)	0.00002	0.00002	0.00003
	(!C * Y)	0.00007	0.00007	0.00007
	(!B * C * Y)	-0.00025	-0.00025	-0.00025
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for D falling (conditional):

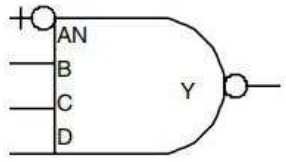
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1H7R	(AN * B * C * Y)	0.00025	0.00025	0.00025
	(AN * B * C * Y)	0.00000	0.00001	0.00001
	(AN * B * C * Y)	-0.00002	-0.00002	-0.00002
	(AN * B * C * Y)	-0.00007	-0.00006	-0.00006
	(!C * Y)	0.00025	0.00025	0.00025
	(!C * Y)	0.00000	0.00000	0.00000
	(!C * Y)	-0.00002	-0.00002	-0.00002
	(!C * Y)	-0.00007	-0.00006	-0.00006
	(!B * C * Y)	0.00025	0.00025	0.00025
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	-0.00007	-0.00006	-0.00006

NAND4BX1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX1P4H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX1P4H7R	0.00082	0.00080	0.00081	0.00092	0.02793

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX1P4H7R	0.00000	0.15406	0.42592

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX1P4H7R	AN->Y (RR)	0.03408	0.10516	0.26577
	B->Y (FR)	0.01860	0.11061	0.43040
	C->Y (FR)	0.01731	0.10791	0.42831
	D->Y (FR)	0.01609	0.10533	0.42624

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX1P4H7R	AN->Y (FF)	0.05954	0.20361	0.56269
	B->Y (RF)	0.03833	0.18651	0.62674
	C->Y (RF)	0.03532	0.18851	0.65496
	D->Y (RF)	0.03167	0.18150	0.64042

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX1P4H7R	AN	0.00130	0.00141	0.00179
	AN	-0.00013	-0.00013	-0.00013
	AN	0.00017	0.00017	0.00018
	AN	0.00099	0.00110	0.00148
	B	0.00116	0.00127	0.00169
	B	-0.00015	-0.00015	-0.00014
	B	0.00010	0.00014	0.00014
	B	-0.00004	0.00003	0.00045
	C	0.00099	0.00108	0.00151
	C	-0.00015	-0.00015	-0.00013
	C	0.00008	0.00008	0.00008
	C	-0.00003	0.00005	0.00046
	D	0.00088	0.00097	0.00147
	D	-0.00015	-0.00015	-0.00014
	D	0.00002	0.00003	0.00005
	D	-0.00006	0.00004	0.00053

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX1P4H7R	AN	0.00092	0.00104	0.00146
	AN	0.00013	0.00013	0.00013
	AN	-0.00018	-0.00017	-0.00017
	AN	0.00127	0.00140	0.00182
	B	-0.00007	-0.00003	0.00019
	B	0.00015	0.00015	0.00015
	B	-0.00014	-0.00014	-0.00010
	B	0.00120	0.00125	0.00147
	C	-0.00003	0.00002	0.00028
	C	0.00015	0.00015	0.00015
	C	-0.00008	-0.00008	-0.00008
	C	0.00103	0.00108	0.00135
	D	-0.00004	0.00003	0.00044
	D	0.00015	0.00015	0.00015
	D	-0.00003	-0.00003	-0.00002
	D	0.00089	0.00097	0.00138

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7R	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00009	0.00019	0.00057
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00003	0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00003	-0.00003	-0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00078	0.00088	0.00125
	(B * !C * !D * Y)	0.00008	0.00019	0.00057
	(B * !C * !D * Y)	0.00003	0.00003	0.00003
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !D * Y)	0.00078	0.00088	0.00125
	(!B * !D * Y)	0.00008	0.00019	0.00057
	(!B * !D * Y)	0.00003	0.00003	0.00003
	(!B * !D * Y)	-0.00003	-0.00003	-0.00002
	(!B * !D * Y)	0.00077	0.00087	0.00124
	(!B * !C * D * Y)	0.00008	0.00019	0.00057
	(!B * !C * D * Y)	0.00003	0.00003	0.00003
	(!B * !C * D * Y)	-0.00003	-0.00003	-0.00002
	(!B * !C * D * Y)	0.00077	0.00087	0.00124

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7R	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00073	0.00085	0.00126
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00003	-0.00003	-0.00002
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00002	0.00003	0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00005	0.00017	0.00058
	(B * !C * !D * Y)	0.00073	0.00085	0.00126
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00002
	(B * !C * !D * Y)	0.00003	0.00003	0.00003
	(B * !C * !D * Y)	0.00005	0.00016	0.00058
	(!B * !D * Y)	0.00073	0.00085	0.00126
	(!B * !D * Y)	-0.00003	-0.00003	-0.00002
	(!B * !D * Y)	0.00002	0.00003	0.00003
	(!B * !D * Y)	0.00006	0.00017	0.00059
	(!B * !C * D * Y)	0.00073	0.00085	0.00126
	(!B * !C * D * Y)	-0.00003	-0.00003	-0.00002
	(!B * !C * D * Y)	0.00002	0.00003	0.00003
	(!B * !C * D * Y)	0.00006	0.00017	0.00059

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7R	(AN * C * D * Y)	-0.00017	-0.00017	-0.00017
	(AN * C * D * Y)	-0.00001	-0.00001	-0.00000
	(AN * C * D * Y)	0.00004	0.00004	0.00004
	(AN * C * D * Y)	0.00011	0.00011	0.00011
	(AN * C * !D * Y)	-0.00018	-0.00017	-0.00017
	(AN * C * !D * Y)	-0.00000	-0.00001	-0.00000
	(AN * C * !D * Y)	0.00006	0.00006	0.00006
	(AN * C * !D * Y)	0.00011	0.00011	0.00011
	(AN * !C * D * Y)	-0.00018	-0.00017	-0.00017
	(AN * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(AN * !C * D * Y)	0.00006	0.00006	0.00006
	(AN * !C * D * Y)	0.00011	0.00011	0.00011
	(AN * !C * !D * Y)	-0.00018	-0.00017	-0.00017
	(AN * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(AN * !C * !D * Y)	0.00006	0.00006	0.00006
	(AN * !C * !D * Y)	0.00011	0.00011	0.00011
	(!AN * C * !D * Y)	-0.00021	-0.00021	-0.00021
	(!AN * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!AN * C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * C * !D * Y)	0.00018	0.00018	0.00018
	(!AN * !C * D * Y)	-0.00021	-0.00021	-0.00021
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!AN * !C * D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * D * Y)	0.00019	0.00019	0.00019
	(!AN * !C * !D * Y)	-0.00021	-0.00021	-0.00021
	(!AN * !C * !D * Y)	-0.00001	-0.00000	-0.00000
	(!AN * !C * !D * Y)	0.00001	0.00001	0.00002
	(!AN * !C * !D * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7R	(AN * C * D * Y)	0.00017	0.00017	0.00018
	(AN * C * D * Y)	0.00000	0.00001	0.00001
	(AN * C * D * Y)	-0.00004	-0.00004	-0.00004
	(AN * C * D * Y)	-0.00011	-0.00011	-0.00011
	(AN * C * !D * Y)	0.00017	0.00018	0.00018
	(AN * C * !D * Y)	0.00000	0.00001	0.00001
	(AN * C * !D * Y)	-0.00006	-0.00006	-0.00006
	(AN * C * !D * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * D * Y)	0.00017	0.00017	0.00018
	(AN * !C * D * Y)	0.00000	0.00001	0.00001
	(AN * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(AN * !C * D * Y)	-0.00011	-0.00011	-0.00011
	(AN * !C * !D * Y)	0.00017	0.00017	0.00018
	(AN * !C * !D * Y)	0.00000	0.00001	0.00001
	(AN * !C * !D * Y)	-0.00006	-0.00006	-0.00006
	(AN * !C * !D * Y)	-0.00011	-0.00011	-0.00011
	(!AN * C * !D * Y)	0.00021	0.00021	0.00021
	(!AN * C * !D * Y)	0.00000	0.00001	0.00001
	(!AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !D * Y)	-0.00018	-0.00017	-0.00014
	(!AN * !C * D * Y)	0.00021	0.00021	0.00021
	(!AN * !C * D * Y)	0.00000	0.00001	0.00001
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * D * Y)	-0.00018	-0.00018	-0.00016
	(!AN * !C * !D * Y)	0.00021	0.00021	0.00021
	(!AN * !C * !D * Y)	0.00000	0.00001	0.00001
	(!AN * !C * !D * Y)	-0.00002	-0.00001	-0.00001
	(!AN * !C * !D * Y)	-0.00018	-0.00018	-0.00016

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7R	(AN * B * D * Y)	-0.00018	-0.00018	-0.00018
	(AN * B * D * Y)	-0.00001	-0.00001	-0.00000
	(AN * B * D * Y)	0.00004	0.00004	0.00005
	(AN * B * D * Y)	0.00005	0.00006	0.00006
	(AN * B * !D * Y)	-0.00018	-0.00018	-0.00018
	(AN * B * !D * Y)	-0.00001	-0.00001	-0.00000
	(AN * B * !D * Y)	0.00006	0.00006	0.00006
	(AN * B * !D * Y)	0.00006	0.00006	0.00006
	(!B * D * Y)	-0.00018	-0.00018	-0.00018
	(!B * D * Y)	-0.00000	-0.00001	-0.00000
	(!B * D * Y)	0.00004	0.00004	0.00004
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00018	-0.00018	-0.00018
	(!B * !D * Y)	-0.00000	-0.00001	-0.00000
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	0.00005	0.00006	0.00006
	(!AN * B * !D * Y)	-0.00018	-0.00018	-0.00018
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00000
	(!AN * B * !D * Y)	0.00001	0.00001	0.00001
	(!AN * B * !D * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7R	(AN * B * D * Y)	0.00018	0.00018	0.00018
	(AN * B * D * Y)	0.00000	0.00001	0.00001
	(AN * B * D * Y)	-0.00005	-0.00004	-0.00004
	(AN * B * D * Y)	-0.00006	-0.00006	-0.00005
	(AN * B * !D * Y)	0.00018	0.00019	0.00019
	(AN * B * !D * Y)	0.00000	0.00001	0.00001
	(AN * B * !D * Y)	-0.00006	-0.00006	-0.00006
	(AN * B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!B * D * Y)	0.00018	0.00018	0.00018
	(!B * D * Y)	0.00000	0.00001	0.00001
	(!B * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00018	0.00018	0.00019
	(!B * !D * Y)	0.00000	0.00001	0.00001
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	-0.00006	-0.00006	-0.00005
	(!AN * B * !D * Y)	0.00018	0.00019	0.00020
	(!AN * B * !D * Y)	0.00000	0.00001	0.00001
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * B * !D * Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7R	(AN * B * C * Y)	-0.00027	-0.00027	-0.00027
	(AN * B * C * Y)	-0.00001	-0.00001	-0.00000
	(AN * B * C * Y)	0.00003	0.00003	0.00003
	(AN * B * C * Y)	0.00006	0.00007	0.00007
	(!C * Y)	-0.00027	-0.00027	-0.00027
	(!C * Y)	-0.00001	-0.00001	-0.00000
	(!C * Y)	0.00002	0.00003	0.00003
	(!C * Y)	0.00007	0.00007	0.00007
	(!B * C * Y)	-0.00027	-0.00027	-0.00027
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	0.00002	0.00003	0.00003
	(!B * C * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for D falling (conditional):

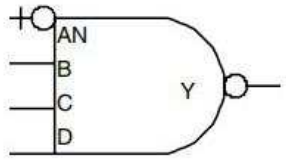
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX1P4H7R	(AN * B * C * Y)	0.00027	0.00027	0.00027
	(AN * B * C * Y)	0.00000	0.00001	0.00001
	(AN * B * C * Y)	-0.00003	-0.00003	-0.00003
	(AN * B * C * Y)	-0.00007	-0.00007	-0.00006
	(!C * Y)	0.00027	0.00027	0.00027
	(!C * Y)	0.00000	0.00001	0.00001
	(!C * Y)	-0.00003	-0.00003	-0.00002
	(!C * Y)	-0.00007	-0.00007	-0.00007
	(!B * C * Y)	0.00027	0.00027	0.00027
	(!B * C * Y)	0.00000	0.00001	0.00001
	(!B * C * Y)	-0.00003	-0.00003	-0.00002
	(!B * C * Y)	-0.00007	-0.00007	-0.00007

NAND4BX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX2H7R	0.00116	0.00092	0.00093	0.00103	0.03370

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX2H7R	0.00000	0.23775	0.58352

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX2H7R	AN->Y (RR)	0.02902	0.09716	0.25468
	B->Y (FR)	0.01772	0.11128	0.43736
	C->Y (FR)	0.01652	0.10860	0.43486
	D->Y (FR)	0.01525	0.10595	0.43345

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX2H7R	AN->Y (FF)	0.05143	0.19297	0.54740
	B->Y (RF)	0.03559	0.18421	0.62704
	C->Y (RF)	0.03276	0.18629	0.65478
	D->Y (RF)	0.02898	0.17914	0.64085

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX2H7R	AN	0.00143	0.00162	0.00231
	AN	-0.00014	-0.00014	-0.00014
	AN	0.00019	0.00020	0.00020
	AN	0.00127	0.00146	0.00215
	B	0.00137	0.00148	0.00198
	B	-0.00018	-0.00018	-0.00018
	B	0.00012	0.00016	0.00017
	B	-0.00005	0.00004	0.00053
	C	0.00115	0.00125	0.00176
	C	-0.00018	-0.00018	-0.00016
	C	0.00006	0.00010	0.00018
	C	-0.00009	0.00005	0.00054
	D	0.00101	0.00112	0.00172
	D	-0.00018	-0.00018	-0.00017
	D	0.00002	0.00003	0.00003
	D	-0.00006	0.00005	0.00063

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX2H7R	AN	0.00122	0.00144	0.00217
	AN	0.00014	0.00014	0.00015
	AN	-0.00020	-0.00020	-0.00019
	AN	0.00145	0.00166	0.00241
	B	-0.00011	-0.00006	0.00021
	B	0.00018	0.00018	0.00018
	B	-0.00017	-0.00016	-0.00012
	B	0.00137	0.00142	0.00170
	C	-0.00006	0.00000	0.00032
	C	0.00018	0.00018	0.00018
	C	-0.00011	-0.00010	-0.00006
	C	0.00115	0.00123	0.00156
	D	-0.00006	0.00003	0.00052
	D	0.00018	0.00018	0.00018
	D	-0.00003	-0.00003	-0.00002
	D	0.00100	0.00110	0.00160

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7R	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00004	0.00023	0.00092
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00005	0.00005	0.00005
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00005	-0.00005	-0.00004
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00104	0.00123	0.00191
	(B * !C * !D * Y)	0.00004	0.00023	0.00092
	(B * !C * !D * Y)	0.00005	0.00005	0.00005
	(B * !C * !D * Y)	-0.00005	-0.00005	-0.00004
	(B * !C * !D * Y)	0.00104	0.00123	0.00191
	(!B * !D * Y)	0.00004	0.00023	0.00092
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	-0.00005	-0.00005	-0.00004
	(!B * !D * Y)	0.00103	0.00122	0.00190
	(!B * !C * D * Y)	0.00004	0.00023	0.00092
	(!B * !C * D * Y)	0.00005	0.00005	0.00005
	(!B * !C * D * Y)	-0.00005	-0.00005	-0.00004
	(!B * !C * D * Y)	0.00103	0.00122	0.00190

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7R	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00103	0.00124	0.00197
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00005	-0.00005	-0.00005
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00004	0.00005	0.00005
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00004	0.00025	0.00098
	(B * !C * !D * Y)	0.00103	0.00124	0.00197
	(B * !C * !D * Y)	-0.00005	-0.00005	-0.00005
	(B * !C * !D * Y)	0.00004	0.00005	0.00005
	(B * !C * !D * Y)	0.00004	0.00025	0.00098
	(!B * !D * Y)	0.00102	0.00123	0.00197
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	0.00004	0.00005	0.00005
	(!B * !D * Y)	0.00004	0.00025	0.00098
	(!B * !C * D * Y)	0.00102	0.00123	0.00197
	(!B * !C * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !C * D * Y)	0.00004	0.00005	0.00005
	(!B * !C * D * Y)	0.00004	0.00025	0.00098

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7R	(AN * C * D * Y)	-0.00020	-0.00020	-0.00020
	(AN * C * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * D * Y)	0.00005	0.00005	0.00005
	(AN * C * D * Y)	0.00013	0.00013	0.00013
	(AN * C * !D * Y)	-0.00021	-0.00020	-0.00020
	(AN * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(AN * C * !D * Y)	0.00007	0.00007	0.00007
	(AN * C * !D * Y)	0.00012	0.00012	0.00012
	(AN * !C * D * Y)	-0.00020	-0.00020	-0.00020
	(AN * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(AN * !C * D * Y)	0.00007	0.00007	0.00007
	(AN * !C * D * Y)	0.00013	0.00013	0.00013
	(AN * !C * !D * Y)	-0.00021	-0.00020	-0.00020
	(AN * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(AN * !C * !D * Y)	0.00007	0.00007	0.00007
	(AN * !C * !D * Y)	0.00013	0.00013	0.00013
	(!AN * C * !D * Y)	-0.00026	-0.00026	-0.00026
	(!AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !D * Y)	0.00001	0.00001	0.00002
	(!AN * C * !D * Y)	0.00020	0.00020	0.00020
	(!AN * !C * D * Y)	-0.00026	-0.00026	-0.00026
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * D * Y)	0.00021	0.00021	0.00021
	(!AN * !C * !D * Y)	-0.00026	-0.00026	-0.00026
	(!AN * !C * !D * Y)	-0.00001	-0.00001	0.00000
	(!AN * !C * !D * Y)	0.00001	0.00002	0.00002
	(!AN * !C * !D * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7R	(AN * C * D * Y)	0.00020	0.00020	0.00020
	(AN * C * D * Y)	0.00001	0.00001	0.00001
	(AN * C * D * Y)	-0.00005	-0.00005	-0.00005
	(AN * C * D * Y)	-0.00013	-0.00013	-0.00012
	(AN * C * !D * Y)	0.00020	0.00020	0.00021
	(AN * C * !D * Y)	0.00000	0.00001	0.00001
	(AN * C * !D * Y)	-0.00007	-0.00007	-0.00007
	(AN * C * !D * Y)	-0.00012	-0.00012	-0.00012
	(AN * !C * D * Y)	0.00020	0.00020	0.00021
	(AN * !C * D * Y)	0.00000	0.00001	0.00001
	(AN * !C * D * Y)	-0.00007	-0.00007	-0.00007
	(AN * !C * D * Y)	-0.00013	-0.00013	-0.00013
	(AN * !C * !D * Y)	0.00020	0.00020	0.00021
	(AN * !C * !D * Y)	0.00001	0.00001	0.00001
	(AN * !C * !D * Y)	-0.00007	-0.00007	-0.00007
	(AN * !C * !D * Y)	-0.00013	-0.00013	-0.00013
	(!AN * C * !D * Y)	0.00026	0.00026	0.00026
	(!AN * C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * C * !D * Y)	-0.00002	-0.00001	-0.00001
	(!AN * C * !D * Y)	-0.00020	-0.00018	-0.00016
	(!AN * !C * D * Y)	0.00026	0.00026	0.00026
	(!AN * !C * D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * D * Y)	-0.00020	-0.00019	-0.00019
	(!AN * !C * !D * Y)	0.00026	0.00026	0.00026
	(!AN * !C * !D * Y)	0.00000	0.00001	0.00001
	(!AN * !C * !D * Y)	-0.00002	-0.00002	-0.00001
	(!AN * !C * !D * Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7R	(AN * B * D * Y)	-0.00021	-0.00021	-0.00021
	(AN * B * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * D * Y)	0.00005	0.00005	0.00005
	(AN * B * D * Y)	0.00006	0.00006	0.00007
	(AN * B * !D * Y)	-0.00021	-0.00021	-0.00021
	(AN * B * !D * Y)	-0.00001	-0.00001	-0.00000
	(AN * B * !D * Y)	0.00007	0.00007	0.00007
	(AN * B * !D * Y)	0.00006	0.00006	0.00007
	(!B * D * Y)	-0.00021	-0.00021	-0.00021
	(!B * D * Y)	-0.00001	-0.00001	-0.00000
	(!B * D * Y)	0.00005	0.00005	0.00005
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00021	-0.00021	-0.00021
	(!B * !D * Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * Y)	0.00007	0.00007	0.00007
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!AN * B * !D * Y)	-0.00021	-0.00021	-0.00021
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * B * !D * Y)	0.00001	0.00001	0.00001
	(!AN * B * !D * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7R	(AN * B * D * Y)	0.00021	0.00021	0.00022
	(AN * B * D * Y)	0.00001	0.00001	0.00001
	(AN * B * D * Y)	-0.00005	-0.00005	-0.00005
	(AN * B * D * Y)	-0.00006	-0.00006	-0.00006
	(AN * B * !D * Y)	0.00022	0.00022	0.00023
	(AN * B * !D * Y)	0.00000	0.00001	0.00001
	(AN * B * !D * Y)	-0.00007	-0.00007	-0.00007
	(AN * B * !D * Y)	-0.00007	-0.00006	-0.00006
	(!B * D * Y)	0.00021	0.00021	0.00022
	(!B * D * Y)	0.00000	0.00001	0.00001
	(!B * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00022	0.00022	0.00022
	(!B * !D * Y)	0.00000	0.00001	0.00001
	(!B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!AN * B * !D * Y)	0.00021	0.00022	0.00023
	(!AN * B * !D * Y)	0.00001	0.00001	0.00002
	(!AN * B * !D * Y)	-0.00001	-0.00001	0.00000
	(!AN * B * !D * Y)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7R	(AN * B * C * Y)	-0.00031	-0.00031	-0.00031
	(AN * B * C * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * C * Y)	0.00003	0.00003	0.00004
	(AN * B * C * Y)	0.00006	0.00006	0.00007
	(!C * Y)	-0.00031	-0.00031	-0.00031
	(!C * Y)	-0.00001	-0.00001	-0.00000
	(!C * Y)	0.00003	0.00003	0.00003
	(!C * Y)	0.00006	0.00006	0.00006
	(!B * C * Y)	-0.00031	-0.00031	-0.00031
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	0.00003	0.00003	0.00003
	(!B * C * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for D falling (conditional):

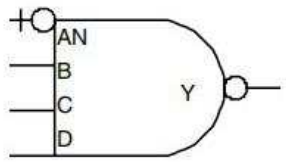
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX2H7R	(AN * B * C * Y)	0.00031	0.00031	0.00031
	(AN * B * C * Y)	0.00001	0.00001	0.00001
	(AN * B * C * Y)	-0.00003	-0.00003	-0.00003
	(AN * B * C * Y)	-0.00006	-0.00006	-0.00006
	(!C * Y)	0.00031	0.00031	0.00031
	(!C * Y)	0.00000	0.00001	0.00001
	(!C * Y)	-0.00003	-0.00003	-0.00003
	(!C * Y)	-0.00006	-0.00006	-0.00006
	(!B * C * Y)	0.00031	0.00031	0.00031
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00003	-0.00003	-0.00003
	(!B * C * Y)	-0.00006	-0.00006	-0.00006

NAND4BX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX3H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX3H7R	0.00084	0.00155	0.00157	0.00161	0.05044

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX3H7R	0.00000	0.20705	0.66154

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX3H7R	AN->Y (RR)	0.04089	0.11911	0.29224
	B->Y (FR)	0.01868	0.11079	0.42947
	C->Y (FR)	0.01729	0.10734	0.42544
	D->Y (FR)	0.01514	0.10339	0.42272

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX3H7R	AN->Y (FF)	0.07105	0.22274	0.59796
	B->Y (RF)	0.04003	0.18887	0.62903
	C->Y (RF)	0.03545	0.18839	0.65539
	D->Y (RF)	0.02877	0.17896	0.64075

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX3H7R	AN	0.00291	0.00301	0.00335
	AN	-0.00025	-0.00025	-0.00025
	AN	0.00033	0.00033	0.00033
	AN	0.00162	0.00172	0.00206
	B	0.00247	0.00265	0.00340
	B	-0.00027	-0.00027	-0.00024
	B	0.00025	0.00025	0.00026
	B	0.00003	0.00017	0.00091
	C	0.00209	0.00227	0.00305
	C	-0.00028	-0.00027	-0.00026
	C	0.00011	0.00016	0.00066
	C	-0.00030	0.00016	0.00092
	D	0.00177	0.00193	0.00288
	D	-0.00028	-0.00027	-0.00025
	D	0.00001	0.00005	0.00008
	D	0.00002	0.00020	0.00111

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX3H7R	AN	0.00136	0.00149	0.00186
	AN	0.00025	0.00026	0.00026
	AN	-0.00033	-0.00033	-0.00033
	AN	0.00281	0.00293	0.00331
	B	-0.00009	-0.00001	0.00034
	B	0.00027	0.00028	0.00028
	B	-0.00026	-0.00025	-0.00025
	B	0.00250	0.00258	0.00294
	C	-0.00008	0.00001	0.00049
	C	0.00027	0.00028	0.00028
	C	-0.00016	-0.00015	-0.00011
	C	0.00207	0.00218	0.00266
	D	-0.00008	0.00006	0.00085
	D	0.00027	0.00027	0.00028
	D	-0.00005	-0.00004	-0.00001
	D	0.00167	0.00180	0.00261

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7R	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00024	0.00032	0.00064
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00003	0.00003	0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00005	-0.00005	-0.00005
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00099	0.00107	0.00137
	(B * !C * !D * Y)	0.00023	0.00032	0.00064
	(B * !C * !D * Y)	0.00003	0.00003	0.00003
	(B * !C * !D * Y)	-0.00006	-0.00005	-0.00004
	(B * !C * !D * Y)	0.00097	0.00106	0.00136
	(!B * !D * Y)	0.00023	0.00032	0.00064
	(!B * !D * Y)	0.00003	0.00003	0.00003
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	0.00095	0.00103	0.00135
	(!B * !C * D * Y)	0.00023	0.00032	0.00064
	(!B * !C * D * Y)	0.00003	0.00003	0.00003
	(!B * !C * D * Y)	-0.00005	-0.00005	-0.00004
	(!B * !C * D * Y)	0.00095	0.00103	0.00135

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7R	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00098	0.00108	0.00144
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00003	-0.00003	-0.00003
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00005	0.00005	0.00005
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00025	0.00035	0.00071
	(B * !C * !D * Y)	0.00098	0.00108	0.00144
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !D * Y)	0.00004	0.00005	0.00006
	(B * !C * !D * Y)	0.00026	0.00035	0.00071
	(!B * !D * Y)	0.00098	0.00108	0.00144
	(!B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * Y)	0.00005	0.00005	0.00006
	(!B * !D * Y)	0.00027	0.00037	0.00073
	(!B * !C * D * Y)	0.00098	0.00108	0.00144
	(!B * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * D * Y)	0.00004	0.00005	0.00006
	(!B * !C * D * Y)	0.00027	0.00037	0.00073

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7R	(AN * C * D * Y)	-0.00034	-0.00034	-0.00034
	(AN * C * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * D * Y)	0.00008	0.00008	0.00008
	(AN * C * D * Y)	0.00020	0.00020	0.00020
	(AN * C * !D * Y)	-0.00035	-0.00035	-0.00035
	(AN * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(AN * C * !D * Y)	0.00010	0.00010	0.00010
	(AN * C * !D * Y)	0.00018	0.00018	0.00018
	(AN * !C * D * Y)	-0.00035	-0.00035	-0.00034
	(AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * D * Y)	0.00010	0.00010	0.00010
	(AN * !C * D * Y)	0.00020	0.00021	0.00021
	(AN * !C * !D * Y)	-0.00035	-0.00034	-0.00034
	(AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * !D * Y)	0.00010	0.00010	0.00010
	(AN * !C * !D * Y)	0.00021	0.00021	0.00021
	(!AN * C * !D * Y)	-0.00035	-0.00035	-0.00035
	(!AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !D * Y)	0.00002	0.00002	0.00002
	(!AN * C * !D * Y)	0.00042	0.00042	0.00042
	(!AN * !C * D * Y)	-0.00035	-0.00035	-0.00034
	(!AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * D * Y)	0.00002	0.00002	0.00002
	(!AN * !C * D * Y)	0.00043	0.00043	0.00044
	(!AN * !C * !D * Y)	-0.00035	-0.00035	-0.00035
	(!AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !D * Y)	0.00002	0.00002	0.00003
	(!AN * !C * !D * Y)	0.00043	0.00043	0.00043

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7R	(AN * C * D * Y)	0.00034	0.00034	0.00035
	(AN * C * D * Y)	0.00001	0.00001	0.00001
	(AN * C * D * Y)	-0.00008	-0.00007	-0.00007
	(AN * C * D * Y)	-0.00020	-0.00020	-0.00019
	(AN * C * !D * Y)	0.00035	0.00035	0.00036
	(AN * C * !D * Y)	0.00001	0.00001	0.00001
	(AN * C * !D * Y)	-0.00010	-0.00010	-0.00010
	(AN * C * !D * Y)	-0.00018	-0.00018	-0.00018
	(AN * !C * D * Y)	0.00035	0.00035	0.00035
	(AN * !C * D * Y)	0.00001	0.00001	0.00001
	(AN * !C * D * Y)	-0.00010	-0.00010	-0.00010
	(AN * !C * D * Y)	-0.00021	-0.00021	-0.00020
	(AN * !C * !D * Y)	0.00034	0.00035	0.00035
	(AN * !C * !D * Y)	0.00001	0.00001	0.00001
	(AN * !C * !D * Y)	-0.00010	-0.00010	-0.00010
	(AN * !C * !D * Y)	-0.00021	-0.00021	-0.00021
	(!AN * C * !D * Y)	0.00035	0.00036	0.00037
	(!AN * C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!AN * C * !D * Y)	-0.00042	-0.00039	-0.00034
	(!AN * !C * D * Y)	0.00035	0.00035	0.00036
	(!AN * !C * D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(!AN * !C * D * Y)	-0.00043	-0.00041	-0.00037
	(!AN * !C * !D * Y)	0.00035	0.00035	0.00035
	(!AN * !C * !D * Y)	0.00001	0.00001	0.00001
	(!AN * !C * !D * Y)	-0.00003	-0.00002	-0.00002
	(!AN * !C * !D * Y)	-0.00043	-0.00041	-0.00037

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7R	(AN * B * D * Y)	-0.00036	-0.00036	-0.00036
	(AN * B * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * D * Y)	0.00007	0.00007	0.00008
	(AN * B * D * Y)	0.00013	0.00014	0.00014
	(AN * B * !D * Y)	-0.00036	-0.00036	-0.00036
	(AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * !D * Y)	0.00010	0.00010	0.00010
	(AN * B * !D * Y)	0.00015	0.00015	0.00015
	(!B * D * Y)	-0.00036	-0.00036	-0.00036
	(!B * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * D * Y)	0.00007	0.00007	0.00008
	(!B * D * Y)	0.00013	0.00013	0.00013
	(!B * !D * Y)	-0.00037	-0.00036	-0.00036
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00010	0.00010	0.00010
	(!B * !D * Y)	0.00013	0.00013	0.00013
	(!AN * B * !D * Y)	-0.00034	-0.00034	-0.00034
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * B * !D * Y)	0.00002	0.00002	0.00002
	(!AN * B * !D * Y)	0.00043	0.00043	0.00044

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7R	(AN * B * D * Y)	0.00036	0.00036	0.00036
	(AN * B * D * Y)	0.00001	0.00001	0.00001
	(AN * B * D * Y)	-0.00007	-0.00007	-0.00006
	(AN * B * D * Y)	-0.00014	-0.00013	-0.00013
	(AN * B * !D * Y)	0.00036	0.00037	0.00038
	(AN * B * !D * Y)	0.00001	0.00001	0.00001
	(AN * B * !D * Y)	-0.00010	-0.00010	-0.00010
	(AN * B * !D * Y)	-0.00015	-0.00015	-0.00015
	(!B * D * Y)	0.00036	0.00036	0.00037
	(!B * D * Y)	0.00001	0.00001	0.00001
	(!B * D * Y)	-0.00007	-0.00007	-0.00007
	(!B * D * Y)	-0.00013	-0.00013	-0.00013
	(!B * !D * Y)	0.00037	0.00038	0.00038
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00010	-0.00010	-0.00010
	(!B * !D * Y)	-0.00013	-0.00013	-0.00013
	(!AN * B * !D * Y)	0.00034	0.00036	0.00039
	(!AN * B * !D * Y)	0.00001	0.00001	0.00002
	(!AN * B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!AN * B * !D * Y)	-0.00042	-0.00039	-0.00034

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7R	(AN * B * C * Y)	-0.00049	-0.00049	-0.00049
	(AN * B * C * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * C * Y)	0.00005	0.00006	0.00006
	(AN * B * C * Y)	0.00011	0.00011	0.00012
	(!C * Y)	-0.00050	-0.00050	-0.00049
	(!C * Y)	-0.00001	-0.00001	-0.00001
	(!C * Y)	0.00005	0.00006	0.00006
	(!C * Y)	0.00010	0.00010	0.00011
	(!B * C * Y)	-0.00050	-0.00049	-0.00048
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00005	0.00006	0.00006
	(!B * C * Y)	0.00010	0.00011	0.00011

Passive power(pJ) for D falling (conditional):

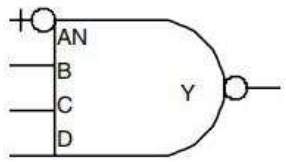
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX3H7R	(AN * B * C * Y)	0.00049	0.00049	0.00050
	(AN * B * C * Y)	0.00001	0.00001	0.00001
	(AN * B * C * Y)	-0.00005	-0.00005	-0.00005
	(AN * B * C * Y)	-0.00010	-0.00010	-0.00010
	(!C * Y)	0.00050	0.00050	0.00050
	(!C * Y)	0.00001	0.00001	0.00001
	(!C * Y)	-0.00005	-0.00005	-0.00005
	(!C * Y)	-0.00010	-0.00010	-0.00010
	(!B * C * Y)	0.00049	0.00050	0.00050
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00005	-0.00005	-0.00005
	(!B * C * Y)	-0.00010	-0.00010	-0.00010

NAND4BX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX4H7R	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX4H7R	0.00098	0.00190	0.00193	0.00196	0.06507

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX4H7R	0.00000	0.28658	0.88873

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX4H7R	AN->Y (RR)	0.03564	0.11050	0.27742
	B->Y (FR)	0.01820	0.11073	0.43264
	C->Y (FR)	0.01681	0.10745	0.42941
	D->Y (FR)	0.01473	0.10361	0.42629

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX4H7R	AN->Y (FF)	0.06327	0.21274	0.58280
	B->Y (RF)	0.03850	0.18740	0.62909
	C->Y (RF)	0.03428	0.18750	0.65588
	D->Y (RF)	0.02788	0.17829	0.63915

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX4H7R	AN	0.00363	0.00380	0.00431
	AN	-0.00033	-0.00033	-0.00033
	AN	0.00042	0.00042	0.00048
	AN	0.00197	0.00212	0.00264
	B	0.00313	0.00333	0.00428
	B	-0.00036	-0.00036	-0.00032
	B	0.00032	0.00033	0.00040
	B	0.00002	0.00023	0.00115
	C	0.00269	0.00288	0.00386
	C	-0.00036	-0.00036	-0.00035
	C	0.00013	0.00020	0.00020
	C	0.00001	0.00020	0.00115
	D	0.00225	0.00246	0.00365
	D	-0.00036	-0.00036	-0.00033
	D	0.00003	0.00006	0.00010
	D	0.00001	0.00024	0.00140

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX4H7R	AN	0.00166	0.00184	0.00239
	AN	0.00033	0.00033	0.00033
	AN	-0.00048	-0.00042	-0.00042
	AN	0.00352	0.00370	0.00427
	B	-0.00011	-0.00001	0.00045
	B	0.00036	0.00036	0.00037
	B	-0.00036	-0.00033	-0.00032
	B	0.00313	0.00323	0.00370
	C	-0.00009	0.00003	0.00062
	C	0.00036	0.00036	0.00037
	C	-0.00020	-0.00020	-0.00013
	C	0.00262	0.00277	0.00338
	D	-0.00009	0.00009	0.00108
	D	0.00036	0.00036	0.00037
	D	-0.00007	-0.00006	-0.00003
	D	0.00215	0.00232	0.00333

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7R	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00031	0.00044	0.00095
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00004	0.00005	0.00005
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00007	-0.00007	-0.00006
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00122	0.00135	0.00183
	(B * !C * !D * Y)	0.00031	0.00044	0.00094
	(B * !C * !D * Y)	0.00004	0.00005	0.00005
	(B * !C * !D * Y)	-0.00007	-0.00007	-0.00006
	(B * !C * !D * Y)	0.00120	0.00133	0.00182
	(!B * !D * Y)	0.00031	0.00044	0.00094
	(!B * !D * Y)	0.00004	0.00005	0.00005
	(!B * !D * Y)	-0.00007	-0.00006	-0.00006
	(!B * !D * Y)	0.00117	0.00130	0.00180
	(!B * !C * D * Y)	0.00031	0.00044	0.00094
	(!B * !C * D * Y)	0.00004	0.00005	0.00005
	(!B * !C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * !C * D * Y)	0.00117	0.00130	0.00179

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7R	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00116	0.00131	0.00185
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00005	-0.00005	-0.00004
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00006	0.00007	0.00007
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00028	0.00043	0.00097
	(B * !C * !D * Y)	0.00115	0.00130	0.00185
	(B * !C * !D * Y)	-0.00005	-0.00005	-0.00004
	(B * !C * !D * Y)	0.00006	0.00007	0.00007
	(B * !C * !D * Y)	0.00028	0.00043	0.00097
	(!B * !D * Y)	0.00115	0.00130	0.00184
	(!B * !D * Y)	-0.00005	-0.00005	-0.00004
	(!B * !D * Y)	0.00006	0.00006	0.00007
	(!B * !D * Y)	0.00030	0.00045	0.00100
	(!B * !C * D * Y)	0.00115	0.00130	0.00184
	(!B * !C * D * Y)	-0.00005	-0.00005	-0.00004
	(!B * !C * D * Y)	0.00006	0.00007	0.00008
	(!B * !C * D * Y)	0.00030	0.00045	0.00100

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7R	(AN * C * D * Y)	-0.00046	-0.00046	-0.00046
	(AN * C * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * C * D * Y)	0.00010	0.00010	0.00010
	(AN * C * D * Y)	0.00019	0.00019	0.00019
	(AN * C * !D * Y)	-0.00047	-0.00047	-0.00046
	(AN * C * !D * Y)	-0.00001	-0.00001	0.00000
	(AN * C * !D * Y)	0.00013	0.00013	0.00013
	(AN * C * !D * Y)	0.00017	0.00018	0.00018
	(AN * !C * D * Y)	-0.00047	-0.00046	-0.00045
	(AN * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * D * Y)	0.00013	0.00013	0.00013
	(AN * !C * D * Y)	0.00020	0.00020	0.00020
	(AN * !C * !D * Y)	-0.00047	-0.00047	-0.00046
	(AN * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * !C * !D * Y)	0.00013	0.00013	0.00014
	(AN * !C * !D * Y)	0.00020	0.00020	0.00020
	(!AN * C * !D * Y)	-0.00047	-0.00047	-0.00046
	(!AN * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !D * Y)	0.00003	0.00003	0.00003
	(!AN * C * !D * Y)	0.00046	0.00046	0.00046
	(!AN * !C * D * Y)	-0.00047	-0.00047	-0.00046
	(!AN * !C * D * Y)	-0.00002	-0.00001	-0.00001
	(!AN * !C * D * Y)	0.00002	0.00003	0.00003
	(!AN * !C * D * Y)	0.00047	0.00048	0.00048
	(!AN * !C * !D * Y)	-0.00048	-0.00047	-0.00046
	(!AN * !C * !D * Y)	-0.00002	-0.00001	-0.00001
	(!AN * !C * !D * Y)	0.00003	0.00003	0.00004
	(!AN * !C * !D * Y)	0.00046	0.00047	0.00047

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7R	(AN * C * D * Y)	0.00046	0.00047	0.00047
	(AN * C * D * Y)	0.00001	0.00001	0.00001
	(AN * C * D * Y)	-0.00010	-0.00010	-0.00009
	(AN * C * D * Y)	-0.00019	-0.00019	-0.00019
	(AN * C * !D * Y)	0.00047	0.00047	0.00047
	(AN * C * !D * Y)	0.00001	0.00001	0.00001
	(AN * C * !D * Y)	-0.00013	-0.00013	-0.00013
	(AN * C * !D * Y)	-0.00018	-0.00017	-0.00017
	(AN * !C * D * Y)	0.00046	0.00047	0.00047
	(AN * !C * D * Y)	0.00001	0.00001	0.00001
	(AN * !C * D * Y)	-0.00013	-0.00013	-0.00013
	(AN * !C * D * Y)	-0.00020	-0.00020	-0.00020
	(AN * !C * !D * Y)	0.00046	0.00047	0.00047
	(AN * !C * !D * Y)	0.00001	0.00001	0.00001
	(AN * !C * !D * Y)	-0.00014	-0.00013	-0.00013
	(AN * !C * !D * Y)	-0.00020	-0.00020	-0.00020
	(!AN * C * !D * Y)	0.00047	0.00048	0.00049
	(!AN * C * !D * Y)	0.00001	0.00001	0.00002
	(!AN * C * !D * Y)	-0.00003	-0.00003	-0.00003
	(!AN * C * !D * Y)	-0.00046	-0.00042	-0.00036
	(!AN * !C * D * Y)	0.00047	0.00047	0.00048
	(!AN * !C * D * Y)	0.00001	0.00001	0.00002
	(!AN * !C * D * Y)	-0.00003	-0.00003	-0.00002
	(!AN * !C * D * Y)	-0.00047	-0.00045	-0.00040
	(!AN * !C * !D * Y)	0.00047	0.00047	0.00048
	(!AN * !C * !D * Y)	0.00001	0.00001	0.00002
	(!AN * !C * !D * Y)	-0.00004	-0.00003	-0.00003
	(!AN * !C * !D * Y)	-0.00047	-0.00045	-0.00041

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7R	(AN * B * D * Y)	-0.00047	-0.00047	-0.00046
	(AN * B * D * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * D * Y)	0.00010	0.00010	0.00010
	(AN * B * D * Y)	0.00014	0.00015	0.00015
	(AN * B * !D * Y)	-0.00047	-0.00047	-0.00047
	(AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * !D * Y)	0.00013	0.00013	0.00013
	(AN * B * !D * Y)	0.00016	0.00017	0.00017
	(!B * D * Y)	-0.00048	-0.00047	-0.00047
	(!B * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * D * Y)	0.00009	0.00010	0.00010
	(!B * D * Y)	0.00014	0.00014	0.00015
	(!B * !D * Y)	-0.00048	-0.00048	-0.00047
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00013	0.00013	0.00013
	(!B * !D * Y)	0.00014	0.00015	0.00015
	(!AN * B * !D * Y)	-0.00045	-0.00045	-0.00045
	(!AN * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!AN * B * !D * Y)	0.00002	0.00003	0.00003
	(!AN * B * !D * Y)	0.00050	0.00051	0.00051

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7R	(AN * B * D * Y)	0.00047	0.00048	0.00048
	(AN * B * D * Y)	0.00001	0.00001	0.00001
	(AN * B * D * Y)	-0.00009	-0.00009	-0.00008
	(AN * B * D * Y)	-0.00015	-0.00015	-0.00014
	(AN * B * !D * Y)	0.00047	0.00048	0.00049
	(AN * B * !D * Y)	0.00001	0.00001	0.00001
	(AN * B * !D * Y)	-0.00013	-0.00013	-0.00013
	(AN * B * !D * Y)	-0.00017	-0.00017	-0.00016
	(!B * D * Y)	0.00048	0.00048	0.00048
	(!B * D * Y)	0.00001	0.00001	0.00001
	(!B * D * Y)	-0.00009	-0.00009	-0.00009
	(!B * D * Y)	-0.00014	-0.00014	-0.00014
	(!B * !D * Y)	0.00048	0.00049	0.00049
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00013	-0.00013	-0.00013
	(!B * !D * Y)	-0.00015	-0.00015	-0.00014
	(!AN * B * !D * Y)	0.00046	0.00048	0.00051
	(!AN * B * !D * Y)	0.00001	0.00001	0.00001
	(!AN * B * !D * Y)	-0.00003	-0.00003	-0.00002
	(!AN * B * !D * Y)	-0.00049	-0.00046	-0.00039

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7R	(AN * B * C * Y)	-0.00062	-0.00062	-0.00061
	(AN * B * C * Y)	-0.00001	-0.00001	-0.00001
	(AN * B * C * Y)	0.00005	0.00007	0.00007
	(AN * B * C * Y)	0.00012	0.00013	0.00014
	(!C * Y)	-0.00062	-0.00062	-0.00062
	(!C * Y)	-0.00001	-0.00001	-0.00001
	(!C * Y)	0.00007	0.00007	0.00008
	(!C * Y)	0.00011	0.00011	0.00011
	(!B * C * Y)	-0.00062	-0.00062	-0.00061
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00006	0.00007	0.00008
	(!B * C * Y)	0.00012	0.00012	0.00013

Passive power(pJ) for D falling (conditional):

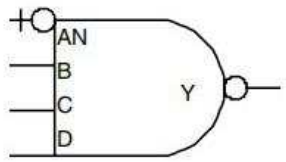
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX4H7R	(AN * B * C * Y)	0.00061	0.00062	0.00062
	(AN * B * C * Y)	0.00001	0.00001	0.00001
	(AN * B * C * Y)	-0.00007	-0.00006	-0.00005
	(AN * B * C * Y)	-0.00011	-0.00011	-0.00011
	(!C * Y)	0.00062	0.00062	0.00062
	(!C * Y)	0.00001	0.00001	0.00001
	(!C * Y)	-0.00007	-0.00007	-0.00007
	(!C * Y)	-0.00011	-0.00011	-0.00011
	(!B * C * Y)	0.00062	0.00062	0.00062
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00007	-0.00006	-0.00006
	(!B * C * Y)	-0.00011	-0.00011	-0.00011

NAND4BX6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4B cell provides a logical NAND of one inverted input (AN) and three non-inverted inputs (B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
AN	B	C	D	Y
x	0	x	x	1
x	1	0	x	1
x	1	1	0	1
0	1	1	1	0
1	1	1	1	1

Footprint

Cell Name	Area
NAND4BX6H7R	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	AN	B	C	D	Y
NAND4BX6H7R	0.00113	0.00279	0.00286	0.00291	0.09812

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4BX6H7R	0.00000	0.38420	1.26280

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX6H7R	AN->Y (RR)	0.03776	0.11600	0.29011
	B->Y (FR)	0.01720	0.10968	0.43321
	C->Y (FR)	0.01587	0.10642	0.42973
	D->Y (FR)	0.01375	0.10246	0.42672

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4BX6H7R	AN->Y (FF)	0.06442	0.21744	0.59471
	B->Y (RF)	0.03603	0.18503	0.62889
	C->Y (RF)	0.03221	0.18574	0.65679
	D->Y (RF)	0.02571	0.17630	0.64046

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX6H7R	AN	0.00534	0.00552	0.00611
	AN	-0.00051	-0.00050	-0.00046
	AN	0.00064	0.00064	0.00066
	AN	0.00261	0.00280	0.00339
	B	0.00451	0.00482	0.00629
	B	-0.00055	-0.00055	-0.00054
	B	0.00049	0.00049	0.00050
	B	-0.00006	0.00021	0.00164
	C	0.00387	0.00415	0.00566
	C	-0.00055	-0.00054	-0.00042
	C	0.00019	0.00030	0.00044
	C	-0.00021	0.00020	0.00167
	D	0.00319	0.00353	0.00537
	D	-0.00055	-0.00047	0.00308
	D	0.00000	0.00059	0.02423
	D	-0.00318	0.00020	0.00207

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4BX6H7R	AN	0.00229	0.00251	0.00313
	AN	0.00050	0.00051	0.00051
	AN	-0.00066	-0.00064	-0.00064
	AN	0.00530	0.00552	0.00613
	B	-0.00017	-0.00001	0.00074
	B	0.00054	0.00055	0.00057
	B	-0.00050	-0.00049	-0.00049
	B	0.00465	0.00480	0.00556
	C	-0.00013	0.00006	0.00100
	C	0.00054	0.00055	0.00056
	C	-0.00032	-0.00030	-0.00019
	C	0.00388	0.00410	0.00507
	D	-0.00012	0.00016	0.00171
	D	0.00054	0.00054	0.00055
	D	-0.00010	-0.00009	0.00000
	D	0.00316	0.00342	0.00501

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7R	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00051	0.00066	0.00120
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00006	0.00006	0.00006
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00009	-0.00009	-0.00006
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00160	0.00174	0.00226
	(B * !C * !D * Y)	0.00051	0.00065	0.00120
	(B * !C * !D * Y)	0.00006	0.00006	0.00006
	(B * !C * !D * Y)	-0.00010	-0.00009	-0.00008
	(B * !C * !D * Y)	0.00158	0.00173	0.00224
	(!B * !D * Y)	0.00051	0.00065	0.00120
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00009	-0.00009	-0.00009
	(!B * !D * Y)	0.00154	0.00169	0.00221
	(!B * !C * D * Y)	0.00051	0.00065	0.00120
	(!B * !C * D * Y)	0.00006	0.00006	0.00006
	(!B * !C * D * Y)	-0.00010	-0.00009	-0.00008
	(!B * !C * D * Y)	0.00154	0.00169	0.00221

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7R	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00156	0.00172	0.00230
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	-0.00006	-0.00006	-0.00006
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00008	0.00009	0.00010
	(B * C * !D * Y) + (B * !C * D * Y) + (!B * C * D * Y)	0.00050	0.00066	0.00124
	(B * !C * !D * Y)	0.00155	0.00171	0.00230
	(B * !C * !D * Y)	-0.00006	-0.00006	-0.00006
	(B * !C * !D * Y)	0.00008	0.00009	0.00010
	(B * !C * !D * Y)	0.00050	0.00066	0.00124
	(!B * !D * Y)	0.00154	0.00170	0.00229
	(!B * !D * Y)	-0.00006	-0.00006	-0.00005
	(!B * !D * Y)	0.00009	0.00009	0.00009
	(!B * !D * Y)	0.00053	0.00069	0.00128
	(!B * !C * D * Y)	0.00154	0.00170	0.00229
	(!B * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !C * D * Y)	0.00008	0.00009	0.00010
	(!B * !C * D * Y)	0.00053	0.00069	0.00128

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7R	(AN * C * D * Y)	-0.00067	-0.00067	-0.00066
	(AN * C * D * Y)	-0.00002	-0.00002	-0.00002
	(AN * C * D * Y)	0.00016	0.00016	0.00016
	(AN * C * D * Y)	0.00029	0.00029	0.00029
	(AN * C * !D * Y)	-0.00068	-0.00068	-0.00068
	(AN * C * !D * Y)	-0.00002	-0.00002	-0.00001
	(AN * C * !D * Y)	0.00020	0.00020	0.00021
	(AN * C * !D * Y)	0.00027	0.00027	0.00027
	(AN * !C * D * Y)	-0.00067	-0.00067	-0.00067
	(AN * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(AN * !C * D * Y)	0.00021	0.00021	0.00021
	(AN * !C * D * Y)	0.00030	0.00030	0.00030
	(AN * !C * !D * Y)	-0.00067	-0.00067	-0.00066
	(AN * !C * !D * Y)	-0.00002	-0.00002	-0.00001
	(AN * !C * !D * Y)	0.00021	0.00021	0.00022
	(AN * !C * !D * Y)	0.00030	0.00030	0.00030
	(!AN * C * !D * Y)	-0.00070	-0.00070	-0.00069
	(!AN * C * !D * Y)	-0.00002	-0.00002	-0.00001
	(!AN * C * !D * Y)	0.00004	0.00005	0.00005
	(!AN * C * !D * Y)	0.00069	0.00070	0.00071
	(!AN * !C * D * Y)	-0.00070	-0.00070	-0.00069
	(!AN * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(!AN * !C * D * Y)	0.00004	0.00004	0.00004
	(!AN * !C * D * Y)	0.00072	0.00073	0.00074
	(!AN * !C * !D * Y)	-0.00070	-0.00069	-0.00069
	(!AN * !C * !D * Y)	-0.00002	-0.00002	-0.00001
	(!AN * !C * !D * Y)	0.00005	0.00005	0.00005
	(!AN * !C * !D * Y)	0.00071	0.00071	0.00071

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7R	(AN * C * D * Y)	0.00066	0.00067	0.00067
	(AN * C * D * Y)	0.00002	0.00002	0.00002
	(AN * C * D * Y)	-0.00016	-0.00015	-0.00015
	(AN * C * D * Y)	-0.00029	-0.00029	-0.00029
	(AN * C * !D * Y)	0.00068	0.00068	0.00068
	(AN * C * !D * Y)	0.00001	0.00002	0.00002
	(AN * C * !D * Y)	-0.00021	-0.00020	-0.00020
	(AN * C * !D * Y)	-0.00027	-0.00027	-0.00027
	(AN * !C * D * Y)	0.00067	0.00067	0.00067
	(AN * !C * D * Y)	0.00001	0.00002	0.00002
	(AN * !C * D * Y)	-0.00021	-0.00021	-0.00021
	(AN * !C * D * Y)	-0.00030	-0.00030	-0.00030
	(AN * !C * !D * Y)	0.00066	0.00067	0.00067
	(AN * !C * !D * Y)	0.00001	0.00002	0.00002
	(AN * !C * !D * Y)	-0.00022	-0.00021	-0.00021
	(AN * !C * !D * Y)	-0.00030	-0.00030	-0.00030
	(!AN * C * !D * Y)	0.00070	0.00071	0.00072
	(!AN * C * !D * Y)	0.00002	0.00002	0.00002
	(!AN * C * !D * Y)	-0.00005	-0.00005	-0.00004
	(!AN * C * !D * Y)	-0.00070	-0.00064	-0.00055
	(!AN * !C * D * Y)	0.00070	0.00070	0.00071
	(!AN * !C * D * Y)	0.00002	0.00002	0.00002
	(!AN * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(!AN * !C * D * Y)	-0.00071	-0.00068	-0.00061
	(!AN * !C * !D * Y)	0.00069	0.00070	0.00070
	(!AN * !C * !D * Y)	0.00001	0.00002	0.00002
	(!AN * !C * !D * Y)	-0.00005	-0.00005	-0.00005
	(!AN * !C * !D * Y)	-0.00071	-0.00068	-0.00062

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7R	(AN * B * D * Y)	-0.00069	-0.00068	-0.00068
	(AN * B * D * Y)	-0.00002	-0.00002	-0.00001
	(AN * B * D * Y)	0.00012	0.00015	0.00015
	(AN * B * D * Y)	0.00020	0.00020	0.00022
	(AN * B * !D * Y)	-0.00069	-0.00068	-0.00068
	(AN * B * !D * Y)	-0.00002	-0.00002	-0.00001
	(AN * B * !D * Y)	0.00021	0.00021	0.00021
	(AN * B * !D * Y)	0.00021	0.00021	0.00022
	(!B * D * Y)	-0.00069	-0.00068	-0.00066
	(!B * D * Y)	-0.00002	-0.00002	-0.00001
	(!B * D * Y)	0.00016	0.00016	0.00016
	(!B * D * Y)	0.00017	0.00018	0.00018
	(!B * !D * Y)	-0.00069	-0.00069	-0.00068
	(!B * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * !D * Y)	0.00021	0.00021	0.00022
	(!B * !D * Y)	0.00017	0.00018	0.00018
	(!AN * B * !D * Y)	-0.00067	-0.00067	-0.00067
	(!AN * B * !D * Y)	-0.00002	-0.00002	-0.00001
	(!AN * B * !D * Y)	0.00004	0.00004	0.00004
	(!AN * B * !D * Y)	0.00074	0.00074	0.00075

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7R	(AN * B * D * Y)	0.00068	0.00069	0.00069
	(AN * B * D * Y)	0.00002	0.00002	0.00002
	(AN * B * D * Y)	-0.00015	-0.00014	-0.00012
	(AN * B * D * Y)	-0.00021	-0.00019	-0.00019
	(AN * B * !D * Y)	0.00069	0.00071	0.00073
	(AN * B * !D * Y)	0.00001	0.00002	0.00002
	(AN * B * !D * Y)	-0.00021	-0.00021	-0.00021
	(AN * B * !D * Y)	-0.00022	-0.00021	-0.00021
	(!B * D * Y)	0.00069	0.00069	0.00069
	(!B * D * Y)	0.00001	0.00002	0.00002
	(!B * D * Y)	-0.00015	-0.00015	-0.00014
	(!B * D * Y)	-0.00018	-0.00018	-0.00017
	(!B * !D * Y)	0.00070	0.00071	0.00071
	(!B * !D * Y)	0.00002	0.00002	0.00002
	(!B * !D * Y)	-0.00022	-0.00021	-0.00021
	(!B * !D * Y)	-0.00018	-0.00018	-0.00017
	(!AN * B * !D * Y)	0.00068	0.00072	0.00079
	(!AN * B * !D * Y)	0.00002	0.00002	0.00003
	(!AN * B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!AN * B * !D * Y)	-0.00071	-0.00066	-0.00059

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7R	(AN * B * C * Y)	-0.00090	-0.00089	-0.00088
	(AN * B * C * Y)	-0.00002	-0.00002	-0.00002
	(AN * B * C * Y)	0.00010	0.00011	0.00011
	(AN * B * C * Y)	0.00018	0.00018	0.00018
	(!C * Y)	-0.00090	-0.00090	-0.00090
	(!C * Y)	-0.00002	-0.00002	-0.00001
	(!C * Y)	0.00009	0.00011	0.00012
	(!C * Y)	0.00015	0.00016	0.00018
	(!B * C * Y)	-0.00090	-0.00089	-0.00088
	(!B * C * Y)	-0.00002	-0.00002	-0.00001
	(!B * C * Y)	0.00011	0.00011	0.00013
	(!B * C * Y)	0.00015	0.00016	0.00017

Passive power(pJ) for D falling (conditional):

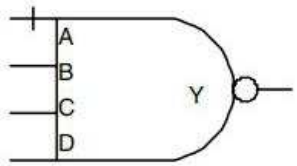
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4BX6H7R	(AN * B * C * Y)	0.00089	0.00090	0.00090
	(AN * B * C * Y)	0.00002	0.00002	0.00002
	(AN * B * C * Y)	-0.00010	-0.00010	-0.00010
	(AN * B * C * Y)	-0.00016	-0.00016	-0.00016
	(!C * Y)	0.00090	0.00090	0.00090
	(!C * Y)	0.00002	0.00002	0.00002
	(!C * Y)	-0.00011	-0.00010	-0.00009
	(!C * Y)	-0.00016	-0.00016	-0.00015
	(!B * C * Y)	0.00090	0.00090	0.00090
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	-0.00010	-0.00010	-0.00010
	(!B * C * Y)	-0.00016	-0.00016	-0.00015

NAND4X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X0P5H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X0P5H7R	0.00068	0.00063	0.00067	0.00075	0.01765

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X0P5H7R	0.00000	0.04162	0.17591

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X0P5H7R	A->Y (FR)	0.02546	0.11824	0.42786
	B->Y (FR)	0.02393	0.11539	0.42480
	C->Y (FR)	0.02288	0.11310	0.42253
	D->Y (FR)	0.02175	0.11078	0.42062

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X0P5H7R	A->Y (RF)	0.05318	0.19070	0.58474
	B->Y (RF)	0.05014	0.19324	0.61269
	C->Y (RF)	0.04802	0.19646	0.64192
	D->Y (RF)	0.04473	0.19045	0.63209

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X0P5H7R	A	0.00112	0.00120	0.00148
	A	-0.00009	-0.00009	-0.00009
	A	0.00012	0.00012	0.00012
	A	0.00001	0.00006	0.00033
	B	0.00102	0.00108	0.00136
	B	-0.00009	-0.00009	-0.00009
	B	0.00009	0.00009	0.00009
	B	0.00004	0.00009	0.00036
	C	0.00094	0.00100	0.00127
	C	-0.00009	-0.00009	-0.00009
	C	0.00003	0.00005	0.00010
	C	0.00004	0.00012	0.00039
	D	0.00087	0.00093	0.00123
	D	-0.00009	-0.00009	-0.00009
	D	0.00001	0.00002	0.00002
	D	0.00004	0.00010	0.00040

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X0P5H7R	A	-0.00009	-0.00005	0.00006
	A	0.00009	0.00009	0.00009
	A	-0.00012	-0.00012	-0.00012
	A	0.00110	0.00113	0.00124
	B	-0.00007	-0.00005	0.00009
	B	0.00009	0.00009	0.00009
	B	-0.00009	-0.00009	-0.00009
	B	0.00093	0.00097	0.00111
	C	-0.00008	-0.00005	0.00011
	C	0.00009	0.00009	0.00009
	C	-0.00006	-0.00005	-0.00003
	C	0.00082	0.00085	0.00101
	D	-0.00009	-0.00003	0.00020
	D	0.00009	0.00009	0.00009
	D	-0.00002	-0.00002	-0.00001
	D	0.00074	0.00079	0.00103

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7R	(B * C * !D * Y)	-0.00015	-0.00015	-0.00015
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	0.00018	0.00018	0.00018
	(B * !C * D * Y)	-0.00015	-0.00015	-0.00015
	(B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * Y)	0.00001	0.00001	0.00001
	(B * !C * D * Y)	0.00018	0.00018	0.00018
	(B * !C * !D * Y)	-0.00015	-0.00015	-0.00015
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	0.00018	0.00018	0.00018
	(!B * C * D * Y)	-0.00015	-0.00015	-0.00015
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	0.00018	0.00018	0.00018
	(!B * !D * Y)	-0.00015	-0.00015	-0.00015
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	0.00018	0.00018	0.00018
	(!B * !C * D * Y)	-0.00015	-0.00015	-0.00015
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7R	(B * C * !D * Y)	0.00015	0.00015	0.00015
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	-0.00018	-0.00017	-0.00016
	(B * !C * D * Y)	0.00015	0.00015	0.00015
	(B * !C * D * Y)	0.00000	0.00000	0.00000
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * Y)	-0.00018	-0.00017	-0.00016
	(B * !C * !D * Y)	0.00015	0.00015	0.00015
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	-0.00018	-0.00017	-0.00016
	(!B * C * D * Y)	0.00015	0.00015	0.00015
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	-0.00018	-0.00017	-0.00017
	(!B * !D * Y)	0.00015	0.00015	0.00015
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	-0.00018	-0.00017	-0.00017
	(!B * !C * D * Y)	0.00015	0.00015	0.00015
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	-0.00018	-0.00017	-0.00017

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7R	(A * C * !D * Y)	-0.00012	-0.00012	-0.00012
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	0.00016	0.00016	0.00016
	(A * !C * D * Y)	-0.00012	-0.00012	-0.00012
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	0.00016	0.00016	0.00017
	(A * !C * !D * Y)	-0.00012	-0.00012	-0.00012
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	0.00016	0.00016	0.00016
	(!A * C * D * Y)	-0.00012	-0.00012	-0.00012
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	0.00003	0.00003	0.00003
	(!A * C * D * Y)	0.00007	0.00007	0.00007
	(!A * C * !D * Y)	-0.00012	-0.00012	-0.00012
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	0.00004	0.00004	0.00004
	(!A * C * !D * Y)	0.00007	0.00007	0.00007
	(!A * !C * D * Y)	-0.00012	-0.00012	-0.00012
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	0.00004	0.00004	0.00004
	(!A * !C * D * Y)	0.00007	0.00007	0.00007
	(!A * !C * !D * Y)	-0.00012	-0.00012	-0.00012
	(!A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * Y)	0.00004	0.00004	0.00004
	(!A * !C * !D * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7R	(A * C * !D * Y)	0.00012	0.00012	0.00013
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * Y)	-0.00016	-0.00015	-0.00014
	(A * !C * D * Y)	0.00012	0.00012	0.00012
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	-0.00016	-0.00015	-0.00014
	(A * !C * !D * Y)	0.00012	0.00012	0.00012
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * Y)	-0.00016	-0.00016	-0.00015
	(!A * C * D * Y)	0.00012	0.00012	0.00012
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	-0.00003	-0.00003	-0.00003
	(!A * C * D * Y)	-0.00007	-0.00007	-0.00007
	(!A * C * !D * Y)	0.00012	0.00012	0.00012
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	-0.00004	-0.00004	-0.00004
	(!A * C * !D * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * D * Y)	0.00012	0.00012	0.00012
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * D * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * !D * Y)	0.00012	0.00012	0.00012
	(!A * !C * !D * Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * Y)	-0.00004	-0.00004	-0.00004
	(!A * !C * !D * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7R	(A * B * !D * Y)	-0.00015	-0.00015	-0.00015
	(A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * Y)	0.00001	0.00001	0.00001
	(A * B * !D * Y)	0.00014	0.00014	0.00014
	(!B * D * Y)	-0.00015	-0.00015	-0.00015
	(!B * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * D * Y)	0.00003	0.00003	0.00003
	(!B * D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	-0.00015	-0.00015	-0.00015
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00004	0.00004	0.00004
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!A * B * D * Y)	-0.00015	-0.00015	-0.00015
	(!A * B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * Y)	0.00003	0.00003	0.00003
	(!A * B * D * Y)	0.00005	0.00005	0.00005
	(!A * B * !D * Y)	-0.00015	-0.00015	-0.00015
	(!A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * Y)	0.00004	0.00004	0.00004
	(!A * B * !D * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7R	(A * B * !D * Y)	0.00015	0.00015	0.00016
	(A * B * !D * Y)	0.00000	0.00000	0.00000
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * Y)	-0.00014	-0.00013	-0.00012
	(!B * D * Y)	0.00015	0.00015	0.00015
	(!B * D * Y)	0.00000	0.00000	0.00000
	(!B * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	0.00015	0.00015	0.00015
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * D * Y)	0.00015	0.00015	0.00015
	(!A * B * D * Y)	0.00000	0.00000	0.00000
	(!A * B * D * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * Y)	0.00015	0.00015	0.00016
	(!A * B * !D * Y)	0.00000	0.00000	0.00000
	(!A * B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!A * B * !D * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7R	(!C * Y)	-0.00022	-0.00021	-0.00021
	(!C * Y)	-0.00000	-0.00000	-0.00000
	(!C * Y)	0.00002	0.00002	0.00002
	(!C * Y)	0.00007	0.00007	0.00007
	(!B * C * Y)	-0.00022	-0.00021	-0.00021
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	0.00006	0.00007	0.00007
	(!A * B * C * Y)	-0.00022	-0.00021	-0.00021
	(!A * B * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * Y)	0.00002	0.00002	0.00002
	(!A * B * C * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for D falling (conditional):

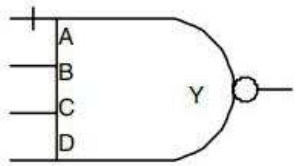
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P5H7R	(!C * Y)	0.00021	0.00021	0.00022
	(!C * Y)	0.00000	0.00000	0.00000
	(!C * Y)	-0.00002	-0.00002	-0.00002
	(!C * Y)	-0.00007	-0.00007	-0.00007
	(!B * C * Y)	0.00021	0.00022	0.00022
	(!B * C * Y)	0.00000	0.00000	0.00001
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	-0.00007	-0.00007	-0.00006
	(!A * B * C * Y)	0.00021	0.00021	0.00022
	(!A * B * C * Y)	0.00000	0.00000	0.00000
	(!A * B * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * Y)	-0.00007	-0.00007	-0.00007

NAND4X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X0P7H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X0P7H7R	0.00072	0.00067	0.00070	0.00078	0.02014

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X0P7H7R	0.00000	0.04682	0.20372

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X0P7H7R	A->Y (FR)	0.02377	0.11678	0.42927
	B->Y (FR)	0.02233	0.11399	0.42570
	C->Y (FR)	0.02131	0.11163	0.42400
	D->Y (FR)	0.02007	0.10920	0.42233

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X0P7H7R	A->Y (RF)	0.04927	0.18785	0.58636
	B->Y (RF)	0.04640	0.19044	0.61484
	C->Y (RF)	0.04420	0.19339	0.64241
	D->Y (RF)	0.04060	0.18686	0.63178

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X0P7H7R	A	0.00121	0.00128	0.00159
	A	-0.00011	-0.00011	-0.00011
	A	0.00014	0.00014	0.00014
	A	-0.00001	0.00005	0.00035
	B	0.00107	0.00115	0.00147
	B	-0.00011	-0.00011	-0.00010
	B	0.00008	0.00010	0.00010
	B	0.00002	0.00008	0.00039
	C	0.00099	0.00106	0.00137
	C	-0.00011	-0.00011	-0.00009
	C	0.00004	0.00006	0.00011
	C	0.00002	0.00011	0.00041
	D	0.00091	0.00097	0.00132
	D	-0.00011	-0.00011	-0.00010
	D	0.00002	0.00002	0.00014
	D	-0.00009	0.00009	0.00043

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X0P7H7R	A	-0.00010	-0.00006	0.00007
	A	0.00011	0.00011	0.00011
	A	-0.00014	-0.00014	-0.00014
	A	0.00119	0.00123	0.00136
	B	-0.00008	-0.00005	0.00010
	B	0.00011	0.00011	0.00011
	B	-0.00010	-0.00010	-0.00008
	B	0.00101	0.00105	0.00121
	C	-0.00009	-0.00005	0.00013
	C	0.00011	0.00011	0.00011
	C	-0.00006	-0.00006	-0.00004
	C	0.00088	0.00092	0.00110
	D	-0.00009	-0.00004	0.00024
	D	0.00011	0.00011	0.00011
	D	-0.00002	-0.00002	-0.00001
	D	0.00079	0.00085	0.00113

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7R	(B * C * !D * Y)	-0.00016	-0.00016	-0.00016
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	0.00018	0.00018	0.00019
	(B * !C * D * Y)	-0.00016	-0.00016	-0.00016
	(B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * Y)	0.00001	0.00001	0.00001
	(B * !C * D * Y)	0.00019	0.00019	0.00019
	(B * !C * !D * Y)	-0.00016	-0.00016	-0.00016
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	0.00018	0.00018	0.00019
	(!B * C * D * Y)	-0.00016	-0.00016	-0.00016
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	0.00019	0.00019	0.00019
	(!B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	0.00019	0.00019	0.00019
	(!B * !C * D * Y)	-0.00016	-0.00016	-0.00016
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7R	(B * C * !D * Y)	0.00016	0.00016	0.00016
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	-0.00019	-0.00018	-0.00016
	(B * !C * D * Y)	0.00016	0.00016	0.00016
	(B * !C * D * Y)	0.00000	0.00000	0.00000
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * Y)	-0.00019	-0.00018	-0.00017
	(B * !C * !D * Y)	0.00016	0.00016	0.00016
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	-0.00019	-0.00018	-0.00017
	(!B * C * D * Y)	0.00016	0.00016	0.00016
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	-0.00019	-0.00018	-0.00017
	(!B * !D * Y)	0.00016	0.00016	0.00016
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	-0.00019	-0.00018	-0.00018
	(!B * !C * D * Y)	0.00016	0.00016	0.00016
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7R	(A * C * !D * Y)	-0.00013	-0.00013	-0.00013
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	0.00017	0.00017	0.00017
	(A * !C * D * Y)	-0.00013	-0.00013	-0.00013
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	0.00017	0.00017	0.00018
	(A * !C * !D * Y)	-0.00013	-0.00013	-0.00013
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	0.00017	0.00017	0.00017
	(!A * C * D * Y)	-0.00013	-0.00013	-0.00013
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	0.00003	0.00003	0.00004
	(!A * C * D * Y)	0.00007	0.00007	0.00007
	(!A * C * !D * Y)	-0.00013	-0.00013	-0.00013
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	0.00004	0.00005	0.00005
	(!A * C * !D * Y)	0.00007	0.00007	0.00007
	(!A * !C * D * Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	0.00005	0.00005	0.00005
	(!A * !C * D * Y)	0.00007	0.00007	0.00007
	(!A * !C * !D * Y)	-0.00013	-0.00013	-0.00013
	(!A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * Y)	0.00005	0.00005	0.00005
	(!A * !C * !D * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7R	(A * C * !D * Y)	0.00013	0.00014	0.00014
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * Y)	-0.00017	-0.00016	-0.00014
	(A * !C * D * Y)	0.00013	0.00013	0.00014
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	-0.00017	-0.00016	-0.00016
	(A * !C * !D * Y)	0.00013	0.00013	0.00013
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * Y)	-0.00017	-0.00016	-0.00015
	(!A * C * D * Y)	0.00013	0.00013	0.00013
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	-0.00003	-0.00003	-0.00003
	(!A * C * D * Y)	-0.00007	-0.00007	-0.00007
	(!A * C * !D * Y)	0.00013	0.00013	0.00013
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	-0.00005	-0.00005	-0.00004
	(!A * C * !D * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * D * Y)	0.00013	0.00013	0.00013
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * D * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * !D * Y)	0.00013	0.00013	0.00013
	(!A * !C * !D * Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * !D * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7R	(A * B * !D * Y)	-0.00016	-0.00016	-0.00016
	(A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * Y)	0.00001	0.00001	0.00001
	(A * B * !D * Y)	0.00015	0.00015	0.00015
	(!B * D * Y)	-0.00016	-0.00016	-0.00016
	(!B * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * D * Y)	0.00003	0.00003	0.00003
	(!B * D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00004	0.00004	0.00004
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!A * B * D * Y)	-0.00016	-0.00016	-0.00016
	(!A * B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * Y)	0.00003	0.00003	0.00003
	(!A * B * D * Y)	0.00005	0.00005	0.00005
	(!A * B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * Y)	0.00004	0.00004	0.00004
	(!A * B * !D * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7R	(A * B * !D * Y)	0.00016	0.00017	0.00018
	(A * B * !D * Y)	0.00000	0.00000	0.00001
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * Y)	-0.00015	-0.00014	-0.00013
	(!B * D * Y)	0.00016	0.00016	0.00016
	(!B * D * Y)	0.00000	0.00000	0.00000
	(!B * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	0.00016	0.00016	0.00016
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * D * Y)	0.00016	0.00016	0.00016
	(!A * B * D * Y)	0.00000	0.00000	0.00001
	(!A * B * D * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * Y)	0.00016	0.00016	0.00017
	(!A * B * !D * Y)	0.00000	0.00000	0.00000
	(!A * B * !D * Y)	-0.00004	-0.00004	-0.00004
	(!A * B * !D * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7R	(!C * Y)	-0.00023	-0.00023	-0.00023
	(!C * Y)	-0.00000	-0.00000	-0.00000
	(!C * Y)	0.00002	0.00002	0.00002
	(!C * Y)	0.00006	0.00007	0.00007
	(!B * C * Y)	-0.00023	-0.00023	-0.00023
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	0.00006	0.00006	0.00007
	(!A * B * C * Y)	-0.00023	-0.00023	-0.00023
	(!A * B * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * Y)	0.00002	0.00002	0.00002
	(!A * B * C * Y)	0.00006	0.00007	0.00007

Passive power(pJ) for D falling (conditional):

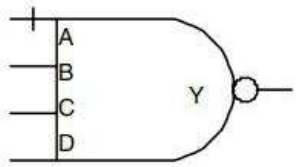
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X0P7H7R	(!C * Y)	0.00023	0.00023	0.00023
	(!C * Y)	0.00000	0.00000	0.00000
	(!C * Y)	-0.00002	-0.00002	-0.00002
	(!C * Y)	-0.00007	-0.00007	-0.00006
	(!B * C * Y)	0.00023	0.00023	0.00023
	(!B * C * Y)	0.00000	0.00000	0.00001
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	-0.00007	-0.00006	-0.00006
	(!A * B * C * Y)	0.00023	0.00023	0.00023
	(!A * B * C * Y)	0.00000	0.00000	0.00000
	(!A * B * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * Y)	-0.00007	-0.00007	-0.00006

NAND4X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X1H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X1H7R	0.00078	0.00072	0.00077	0.00085	0.02380

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X1H7R	0.00000	0.05453	0.24752

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X1H7R	A->Y (FR)	0.02111	0.11327	0.42682
	B->Y (FR)	0.01987	0.11053	0.42360
	C->Y (FR)	0.01884	0.10816	0.42163
	D->Y (FR)	0.01753	0.10554	0.41977

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X1H7R	A->Y (RF)	0.04418	0.18420	0.58854
	B->Y (RF)	0.04151	0.18681	0.61688
	C->Y (RF)	0.03909	0.18948	0.64709
	D->Y (RF)	0.03516	0.18246	0.63241

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X1H7R	A	0.00128	0.00137	0.00174
	A	-0.00013	-0.00013	-0.00013
	A	0.00016	0.00016	0.00017
	A	-0.00006	0.00000	0.00036
	B	0.00112	0.00122	0.00159
	B	-0.00013	-0.00013	-0.00011
	B	0.00012	0.00012	0.00012
	B	-0.00003	0.00003	0.00040
	C	0.00101	0.00111	0.00148
	C	-0.00013	-0.00013	-0.00012
	C	0.00005	0.00007	0.00013
	C	-0.00005	0.00006	0.00042
	D	0.00092	0.00100	0.00143
	D	-0.00013	-0.00013	-0.00012
	D	0.00000	0.00002	0.00005
	D	-0.00004	0.00005	0.00047

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X1H7R	A	-0.00011	-0.00007	0.00009
	A	0.00013	0.00013	0.00013
	A	-0.00017	-0.00016	-0.00016
	A	0.00132	0.00136	0.00152
	B	-0.00010	-0.00006	0.00013
	B	0.00013	0.00013	0.00013
	B	-0.00012	-0.00012	-0.00012
	B	0.00112	0.00116	0.00135
	C	-0.00010	-0.00006	0.00016
	C	0.00013	0.00013	0.00013
	C	-0.00008	-0.00007	-0.00005
	C	0.00095	0.00101	0.00123
	D	-0.00011	-0.00004	0.00030
	D	0.00013	0.00013	0.00013
	D	-0.00002	-0.00002	0.00000
	D	0.00084	0.00092	0.00126

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7R	(B * C * !D * Y)	-0.00018	-0.00018	-0.00018
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	0.00019	0.00020	0.00020
	(B * !C * D * Y)	-0.00018	-0.00018	-0.00018
	(B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * D * Y)	0.00001	0.00001	0.00001
	(B * !C * D * Y)	0.00020	0.00020	0.00020
	(B * !C * !D * Y)	-0.00018	-0.00018	-0.00018
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	0.00019	0.00020	0.00020
	(!B * C * D * Y)	-0.00018	-0.00018	-0.00018
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	0.00020	0.00020	0.00020
	(!B * !D * Y)	-0.00018	-0.00018	-0.00018
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	0.00020	0.00020	0.00020
	(!B * !C * D * Y)	-0.00018	-0.00018	-0.00018
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7R	(B * C * !D * Y)	0.00018	0.00018	0.00018
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	-0.00020	-0.00019	-0.00017
	(B * !C * D * Y)	0.00018	0.00018	0.00018
	(B * !C * D * Y)	0.00000	0.00000	0.00000
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * Y)	-0.00020	-0.00019	-0.00017
	(B * !C * !D * Y)	0.00018	0.00018	0.00018
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	-0.00020	-0.00019	-0.00018
	(!B * C * D * Y)	0.00018	0.00018	0.00018
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	-0.00020	-0.00019	-0.00018
	(!B * !D * Y)	0.00018	0.00018	0.00018
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	-0.00020	-0.00019	-0.00018
	(!B * !C * D * Y)	0.00018	0.00018	0.00018
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7R	(A * C * !D * Y)	-0.00015	-0.00015	-0.00015
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	0.00018	0.00018	0.00018
	(A * !C * D * Y)	-0.00015	-0.00015	-0.00015
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	0.00018	0.00018	0.00018
	(A * !C * !D * Y)	-0.00015	-0.00015	-0.00015
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	0.00018	0.00018	0.00018
	(!A * C * D * Y)	-0.00015	-0.00015	-0.00015
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	0.00004	0.00004	0.00004
	(!A * C * D * Y)	0.00006	0.00006	0.00006
	(!A * C * !D * Y)	-0.00016	-0.00015	-0.00015
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	0.00005	0.00005	0.00005
	(!A * C * !D * Y)	0.00006	0.00006	0.00006
	(!A * !C * D * Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	0.00005	0.00005	0.00005
	(!A * !C * D * Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * !D * Y)	0.00005	0.00005	0.00005
	(!A * !C * !D * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7R	(A * C * !D * Y)	0.00015	0.00015	0.00016
	(A * C * !D * Y)	0.00000	0.00000	0.00001
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * Y)	-0.00018	-0.00017	-0.00015
	(A * !C * D * Y)	0.00015	0.00015	0.00016
	(A * !C * D * Y)	0.00000	0.00000	0.00001
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	-0.00018	-0.00017	-0.00016
	(A * !C * !D * Y)	0.00015	0.00015	0.00015
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * Y)	-0.00018	-0.00017	-0.00016
	(!A * C * D * Y)	0.00015	0.00015	0.00015
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	-0.00004	-0.00004	-0.00004
	(!A * C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * Y)	0.00015	0.00015	0.00016
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * C * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * Y)	0.00015	0.00015	0.00016
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * Y)	0.00015	0.00015	0.00015
	(!A * !C * !D * Y)	0.00000	0.00000	0.00000
	(!A * !C * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * !C * !D * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7R	(A * B * !D * Y)	-0.00018	-0.00018	-0.00018
	(A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * B * !D * Y)	0.00001	0.00001	0.00001
	(A * B * !D * Y)	0.00016	0.00016	0.00017
	(!B * D * Y)	-0.00018	-0.00018	-0.00018
	(!B * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * D * Y)	0.00004	0.00004	0.00004
	(!B * D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	-0.00018	-0.00018	-0.00018
	(!B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!B * !D * Y)	0.00005	0.00005	0.00005
	(!A * B * D * Y)	-0.00018	-0.00018	-0.00017
	(!A * B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * D * Y)	0.00003	0.00003	0.00004
	(!A * B * D * Y)	0.00005	0.00005	0.00005
	(!A * B * !D * Y)	-0.00018	-0.00018	-0.00018
	(!A * B * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * !D * Y)	0.00005	0.00005	0.00005
	(!A * B * !D * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7R	(A * B * !D * Y)	0.00018	0.00018	0.00019
	(A * B * !D * Y)	0.00000	0.00000	0.00000
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * Y)	-0.00016	-0.00015	-0.00014
	(!B * D * Y)	0.00018	0.00018	0.00018
	(!B * D * Y)	0.00000	0.00000	0.00000
	(!B * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	0.00018	0.00018	0.00018
	(!B * !D * Y)	0.00000	0.00000	0.00000
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * D * Y)	0.00017	0.00018	0.00018
	(!A * B * D * Y)	0.00000	0.00000	0.00000
	(!A * B * D * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * Y)	0.00018	0.00018	0.00019
	(!A * B * !D * Y)	0.00000	0.00000	0.00000
	(!A * B * !D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * !D * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7R	(!C * Y)	-0.00025	-0.00025	-0.00025
	(!C * Y)	-0.00000	-0.00000	-0.00000
	(!C * Y)	0.00003	0.00003	0.00003
	(!C * Y)	0.00006	0.00006	0.00006
	(!B * C * Y)	-0.00025	-0.00025	-0.00025
	(!B * C * Y)	-0.00001	-0.00000	-0.00000
	(!B * C * Y)	0.00002	0.00002	0.00003
	(!B * C * Y)	0.00006	0.00006	0.00007
	(!A * B * C * Y)	-0.00025	-0.00025	-0.00025
	(!A * B * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * B * C * Y)	0.00002	0.00002	0.00002
	(!A * B * C * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for D falling (conditional):

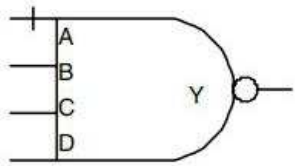
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1H7R	(!C * Y)	0.00025	0.00025	0.00025
	(!C * Y)	0.00000	0.00000	0.00000
	(!C * Y)	-0.00003	-0.00003	-0.00002
	(!C * Y)	-0.00006	-0.00006	-0.00006
	(!B * C * Y)	0.00025	0.00025	0.00025
	(!B * C * Y)	0.00000	0.00000	0.00001
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * C * Y)	0.00025	0.00025	0.00025
	(!A * B * C * Y)	0.00000	0.00001	0.00001
	(!A * B * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * B * C * Y)	-0.00006	-0.00006	-0.00006

NAND4X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X1P4H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X1P4H7R	0.00082	0.00077	0.00081	0.00090	0.02733

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X1P4H7R	0.00000	0.06191	0.28575

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X1P4H7R	A->Y (FR)	0.02008	0.11261	0.42878
	B->Y (FR)	0.01891	0.10995	0.42535
	C->Y (FR)	0.01788	0.10749	0.42353
	D->Y (FR)	0.01662	0.10490	0.42177

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X1P4H7R	A->Y (RF)	0.04173	0.18216	0.58893
	B->Y (RF)	0.03925	0.18492	0.61726
	C->Y (RF)	0.03668	0.18740	0.64709
	D->Y (RF)	0.03290	0.18030	0.63242

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X1P4H7R	A	0.00141	0.00151	0.00193
	A	-0.00015	-0.00015	-0.00013
	A	0.00019	0.00019	0.00019
	A	-0.00007	0.00001	0.00041
	B	0.00125	0.00135	0.00177
	B	-0.00015	-0.00015	-0.00015
	B	0.00012	0.00014	0.00014
	B	-0.00003	0.00005	0.00045
	C	0.00111	0.00122	0.00164
	C	-0.00015	-0.00015	-0.00015
	C	0.00006	0.00009	0.00015
	C	-0.00005	0.00006	0.00047
	D	0.00101	0.00110	0.00159
	D	-0.00015	-0.00015	-0.00014
	D	0.00000	0.00003	0.00003
	D	-0.00004	0.00006	0.00054

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X1P4H7R	A	-0.00013	-0.00008	0.00011
	A	0.00015	0.00015	0.00015
	A	-0.00019	-0.00019	-0.00019
	A	0.00144	0.00149	0.00168
	B	-0.00011	-0.00007	0.00015
	B	0.00015	0.00015	0.00015
	B	-0.00014	-0.00014	-0.00012
	B	0.00123	0.00128	0.00150
	C	-0.00012	-0.00006	0.00019
	C	0.00015	0.00015	0.00015
	C	-0.00009	-0.00008	-0.00006
	C	0.00105	0.00111	0.00137
	D	-0.00012	-0.00005	0.00035
	D	0.00015	0.00015	0.00015
	D	-0.00003	-0.00002	0.00000
	D	0.00093	0.00100	0.00140

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7R	(B * C * !D * Y)	-0.00020	-0.00020	-0.00019
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	0.00021	0.00021	0.00021
	(B * !C * D * Y)	-0.00020	-0.00020	-0.00019
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * D * Y)	0.00001	0.00001	0.00001
	(B * !C * D * Y)	0.00021	0.00021	0.00022
	(B * !C * !D * Y)	-0.00020	-0.00020	-0.00019
	(B * !C * !D * Y)	-0.00000	-0.00001	-0.00000
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	0.00021	0.00021	0.00021
	(!B * C * D * Y)	-0.00020	-0.00020	-0.00019
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	0.00022	0.00022	0.00022
	(!B * !D * Y)	-0.00020	-0.00020	-0.00020
	(!B * !D * Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	0.00021	0.00021	0.00022
	(!B * !C * D * Y)	-0.00020	-0.00018	-0.00009
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7R	(B * C * !D * Y)	0.00020	0.00020	0.00020
	(B * C * !D * Y)	0.00000	0.00001	0.00001
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	-0.00021	-0.00020	-0.00018
	(B * !C * D * Y)	0.00019	0.00020	0.00020
	(B * !C * D * Y)	0.00000	0.00001	0.00001
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * Y)	-0.00021	-0.00020	-0.00019
	(B * !C * !D * Y)	0.00020	0.00020	0.00020
	(B * !C * !D * Y)	0.00000	0.00001	0.00001
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	-0.00021	-0.00020	-0.00019
	(!B * C * D * Y)	0.00019	0.00020	0.00020
	(!B * C * D * Y)	0.00000	0.00001	0.00001
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	-0.00022	-0.00021	-0.00020
	(!B * !D * Y)	0.00020	0.00020	0.00020
	(!B * !D * Y)	0.00000	0.00001	0.00001
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	-0.00022	-0.00021	-0.00020
	(!B * !C * D * Y)	0.00020	0.00020	0.00020
	(!B * !C * D * Y)	0.00000	0.00001	0.00001
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7R	(A * C * !D * Y)	-0.00017	-0.00017	-0.00017
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	0.00019	0.00019	0.00019
	(A * !C * D * Y)	-0.00017	-0.00017	-0.00016
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	0.00019	0.00019	0.00019
	(A * !C * !D * Y)	-0.00017	-0.00017	-0.00017
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	0.00019	0.00019	0.00019
	(!A * C * D * Y)	-0.00017	-0.00017	-0.00017
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * D * Y)	0.00004	0.00004	0.00004
	(!A * C * D * Y)	0.00006	0.00006	0.00007
	(!A * C * !D * Y)	-0.00017	-0.00017	-0.00017
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !D * Y)	0.00006	0.00006	0.00006
	(!A * C * !D * Y)	0.00006	0.00006	0.00007
	(!A * !C * D * Y)	-0.00017	-0.00017	-0.00017
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * !C * D * Y)	0.00006	0.00006	0.00006
	(!A * !C * D * Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * Y)	-0.00017	-0.00017	-0.00017
	(!A * !C * !D * Y)	-0.00000	-0.00001	-0.00000
	(!A * !C * !D * Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7R	(A * C * !D * Y)	0.00017	0.00017	0.00018
	(A * C * !D * Y)	0.00000	0.00001	0.00001
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * Y)	-0.00019	-0.00017	-0.00015
	(A * !C * D * Y)	0.00017	0.00017	0.00017
	(A * !C * D * Y)	0.00000	0.00001	0.00001
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	-0.00019	-0.00018	-0.00017
	(A * !C * !D * Y)	0.00017	0.00017	0.00017
	(A * !C * !D * Y)	0.00000	0.00001	0.00001
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * Y)	-0.00019	-0.00018	-0.00017
	(!A * C * D * Y)	0.00017	0.00017	0.00017
	(!A * C * D * Y)	0.00000	0.00001	0.00001
	(!A * C * D * Y)	-0.00004	-0.00004	-0.00004
	(!A * C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * Y)	0.00017	0.00017	0.00018
	(!A * C * !D * Y)	0.00000	0.00001	0.00001
	(!A * C * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * Y)	-0.00007	-0.00006	-0.00006
	(!A * !C * D * Y)	0.00017	0.00017	0.00018
	(!A * !C * D * Y)	0.00000	0.00001	0.00001
	(!A * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * Y)	0.00017	0.00017	0.00018
	(!A * !C * !D * Y)	0.00000	0.00001	0.00001
	(!A * !C * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7R	(A * B * !D * Y)	-0.00019	-0.00019	-0.00019
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00000
	(A * B * !D * Y)	0.00001	0.00001	0.00001
	(A * B * !D * Y)	0.00018	0.00018	0.00018
	(!B * D * Y)	-0.00019	-0.00019	-0.00019
	(!B * D * Y)	-0.00000	-0.00001	-0.00000
	(!B * D * Y)	0.00004	0.00004	0.00004
	(!B * D * Y)	0.00005	0.00006	0.00006
	(!B * !D * Y)	-0.00019	-0.00019	-0.00019
	(!B * !D * Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	0.00005	0.00006	0.00006
	(!A * B * D * Y)	-0.00019	-0.00019	-0.00019
	(!A * B * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * B * D * Y)	0.00004	0.00004	0.00004
	(!A * B * D * Y)	0.00005	0.00006	0.00006
	(!A * B * !D * Y)	-0.00020	-0.00019	-0.00019
	(!A * B * !D * Y)	-0.00000	-0.00000	0.00001
	(!A * B * !D * Y)	0.00006	0.00006	0.00006
	(!A * B * !D * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7R	(A * B * !D * Y)	0.00019	0.00020	0.00021
	(A * B * !D * Y)	0.00000	0.00001	0.00001
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * Y)	-0.00018	-0.00017	-0.00015
	(!B * D * Y)	0.00019	0.00019	0.00019
	(!B * D * Y)	0.00000	0.00001	0.00001
	(!B * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !D * Y)	0.00020	0.00020	0.00020
	(!B * !D * Y)	0.00000	0.00001	0.00001
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	-0.00006	-0.00006	-0.00005
	(!A * B * D * Y)	0.00019	0.00019	0.00020
	(!A * B * D * Y)	0.00000	0.00001	0.00001
	(!A * B * D * Y)	-0.00004	-0.00004	-0.00004
	(!A * B * D * Y)	-0.00006	-0.00006	-0.00005
	(!A * B * !D * Y)	0.00019	0.00020	0.00020
	(!A * B * !D * Y)	0.00000	0.00001	0.00001
	(!A * B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * !D * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7R	(!C * Y)	-0.00028	-0.00028	-0.00027
	(!C * Y)	-0.00001	-0.00001	-0.00000
	(!C * Y)	0.00003	0.00003	0.00003
	(!C * Y)	0.00006	0.00006	0.00006
	(!B * C * Y)	-0.00028	-0.00028	-0.00027
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	0.00003	0.00003	0.00003
	(!B * C * Y)	0.00006	0.00006	0.00006
	(!A * B * C * Y)	-0.00028	-0.00028	-0.00027
	(!A * B * C * Y)	-0.00001	-0.00001	-0.00000
	(!A * B * C * Y)	0.00003	0.00003	0.00003
	(!A * B * C * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for D falling (conditional):

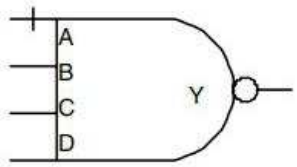
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X1P4H7R	(!C * Y)	0.00027	0.00028	0.00028
	(!C * Y)	0.00000	0.00001	0.00001
	(!C * Y)	-0.00003	-0.00003	-0.00003
	(!C * Y)	-0.00006	-0.00006	-0.00006
	(!B * C * Y)	0.00027	0.00028	0.00028
	(!B * C * Y)	0.00000	0.00001	0.00001
	(!B * C * Y)	-0.00003	-0.00003	-0.00003
	(!B * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * C * Y)	0.00027	0.00028	0.00028
	(!A * B * C * Y)	0.00000	0.00001	0.00001
	(!A * B * C * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * C * Y)	-0.00006	-0.00006	-0.00006

NAND4X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X2H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X2H7R	0.00093	0.00092	0.00091	0.00102	0.03304

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X2H7R	0.00000	0.07323	0.33964

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X2H7R	A->Y (FR)	0.01866	0.11266	0.43551
	B->Y (FR)	0.01783	0.11027	0.43325
	C->Y (FR)	0.01647	0.10746	0.43056
	D->Y (FR)	0.01519	0.10476	0.42850

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X2H7R	A->Y (RF)	0.03771	0.17887	0.58912
	B->Y (RF)	0.03598	0.18216	0.61837
	C->Y (RF)	0.03260	0.18380	0.64705
	D->Y (RF)	0.02879	0.17652	0.63179

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X2H7R	A	0.00155	0.00168	0.00217
	A	-0.00018	-0.00018	-0.00018
	A	0.00023	0.00023	0.00023
	A	-0.00012	-0.00004	0.00045
	B	0.00140	0.00151	0.00200
	B	-0.00018	-0.00018	-0.00016
	B	0.00014	0.00016	0.00017
	B	-0.00007	0.00002	0.00050
	C	0.00123	0.00133	0.00184
	C	-0.00018	-0.00018	-0.00016
	C	0.00006	0.00011	0.00018
	C	-0.00012	0.00003	0.00053
	D	0.00108	0.00119	0.00179
	D	-0.00018	-0.00018	-0.00017
	D	0.00000	0.00003	0.00004
	D	-0.00008	0.00003	0.00062

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X2H7R	A	-0.00014	-0.00009	0.00014
	A	0.00018	0.00018	0.00018
	A	-0.00023	-0.00023	-0.00023
	A	0.00165	0.00170	0.00194
	B	-0.00014	-0.00008	0.00018
	B	0.00018	0.00018	0.00018
	B	-0.00017	-0.00016	-0.00014
	B	0.00140	0.00145	0.00173
	C	-0.00013	-0.00007	0.00025
	C	0.00018	0.00018	0.00018
	C	-0.00011	-0.00010	-0.00006
	C	0.00119	0.00125	0.00157
	D	-0.00014	-0.00005	0.00045
	D	0.00018	0.00018	0.00018
	D	-0.00003	-0.00003	0.00000
	D	0.00103	0.00111	0.00161

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7R	(B * C * !D * Y)	-0.00022	-0.00022	-0.00022
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	0.00024	0.00024	0.00024
	(B * !C * D * Y)	-0.00022	-0.00022	-0.00022
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * D * Y)	0.00001	0.00002	0.00002
	(B * !C * D * Y)	0.00024	0.00024	0.00024
	(B * !C * !D * Y)	-0.00022	-0.00022	-0.00022
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	0.00024	0.00024	0.00024
	(!B * C * D * Y)	-0.00022	-0.00022	-0.00022
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	0.00025	0.00025	0.00025
	(!B * !D * Y)	-0.00022	-0.00022	-0.00022
	(!B * !D * Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * Y)	0.00001	0.00002	0.00002
	(!B * !D * Y)	0.00024	0.00024	0.00024
	(!B * !C * D * Y)	-0.00022	-0.00022	-0.00022
	(!B * !C * D * Y)	-0.00001	0.00001	0.00014
	(!B * !C * D * Y)	0.00001	0.00002	0.00002
	(!B * !C * D * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7R	(B * C * !D * Y)	0.00022	0.00022	0.00022
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	-0.00024	-0.00023	-0.00021
	(B * !C * D * Y)	0.00022	0.00022	0.00022
	(B * !C * D * Y)	0.00001	0.00001	0.00001
	(B * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * D * Y)	-0.00024	-0.00023	-0.00021
	(B * !C * !D * Y)	0.00022	0.00022	0.00022
	(B * !C * !D * Y)	0.00000	0.00001	0.00001
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * !D * Y)	-0.00024	-0.00023	-0.00021
	(!B * C * D * Y)	0.00022	0.00022	0.00022
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	-0.00024	-0.00023	-0.00022
	(!B * !D * Y)	0.00022	0.00022	0.00022
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * Y)	-0.00024	-0.00023	-0.00022
	(!B * !C * D * Y)	0.00022	0.00022	0.00022
	(!B * !C * D * Y)	0.00000	0.00001	0.00001
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(!B * !C * D * Y)	-0.00024	-0.00023	-0.00022

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7R	(A * C * !D * Y)	-0.00021	-0.00021	-0.00021
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	0.00020	0.00020	0.00020
	(A * !C * D * Y)	-0.00022	-0.00021	-0.00021
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	0.00021	0.00021	0.00021
	(A * !C * !D * Y)	-0.00021	-0.00021	-0.00021
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !D * Y)	0.00002	0.00002	0.00002
	(A * !C * !D * Y)	0.00020	0.00020	0.00020
	(!A * C * D * Y)	-0.00022	-0.00021	-0.00021
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00005	0.00005	0.00005
	(!A * C * D * Y)	0.00006	0.00006	0.00006
	(!A * C * !D * Y)	-0.00022	-0.00021	-0.00021
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !D * Y)	0.00007	0.00007	0.00007
	(!A * C * !D * Y)	0.00006	0.00006	0.00006
	(!A * !C * D * Y)	-0.00022	-0.00021	-0.00021
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * !C * D * Y)	0.00007	0.00007	0.00007
	(!A * !C * D * Y)	0.00006	0.00006	0.00006
	(!A * !C * !D * Y)	-0.00022	-0.00021	-0.00021
	(!A * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!A * !C * !D * Y)	0.00007	0.00007	0.00007
	(!A * !C * !D * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7R	(A * C * !D * Y)	0.00021	0.00022	0.00022
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * Y)	-0.00020	-0.00018	-0.00016
	(A * !C * D * Y)	0.00021	0.00021	0.00022
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	-0.00020	-0.00019	-0.00017
	(A * !C * !D * Y)	0.00021	0.00021	0.00022
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * !D * Y)	-0.00020	-0.00019	-0.00018
	(!A * C * D * Y)	0.00021	0.00021	0.00022
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * C * !D * Y)	0.00021	0.00022	0.00022
	(!A * C * !D * Y)	0.00000	0.00001	0.00001
	(!A * C * !D * Y)	-0.00007	-0.00007	-0.00007
	(!A * C * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * D * Y)	0.00021	0.00022	0.00022
	(!A * !C * D * Y)	0.00000	0.00001	0.00001
	(!A * !C * D * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(!A * !C * !D * Y)	0.00021	0.00021	0.00022
	(!A * !C * !D * Y)	0.00000	0.00001	0.00001
	(!A * !C * !D * Y)	-0.00007	-0.00007	-0.00007
	(!A * !C * !D * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7R	(A * B * !D * Y)	-0.00021	-0.00021	-0.00021
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * Y)	0.00001	0.00001	0.00001
	(A * B * !D * Y)	0.00021	0.00021	0.00021
	(!B * D * Y)	-0.00021	-0.00021	-0.00021
	(!B * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * D * Y)	0.00005	0.00005	0.00005
	(!B * D * Y)	0.00006	0.00006	0.00006
	(!B * !D * Y)	-0.00021	-0.00021	-0.00021
	(!B * !D * Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * Y)	0.00007	0.00007	0.00007
	(!B * !D * Y)	0.00006	0.00006	0.00006
	(!A * B * D * Y)	-0.00021	-0.00021	-0.00020
	(!A * B * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * B * D * Y)	0.00005	0.00005	0.00005
	(!A * B * D * Y)	0.00005	0.00006	0.00006
	(!A * B * !D * Y)	-0.00021	-0.00021	-0.00021
	(!A * B * !D * Y)	-0.00001	-0.00001	-0.00000
	(!A * B * !D * Y)	0.00007	0.00007	0.00007
	(!A * B * !D * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7R	(A * B * !D * Y)	0.00021	0.00021	0.00023
	(A * B * !D * Y)	0.00001	0.00001	0.00001
	(A * B * !D * Y)	-0.00001	-0.00001	0.00000
	(A * B * !D * Y)	-0.00021	-0.00019	-0.00017
	(!B * D * Y)	0.00021	0.00021	0.00021
	(!B * D * Y)	0.00001	0.00001	0.00001
	(!B * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * D * Y)	-0.00006	-0.00006	-0.00006
	(!B * !D * Y)	0.00021	0.00021	0.00021
	(!B * !D * Y)	0.00000	0.00001	0.00001
	(!B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!B * !D * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * D * Y)	0.00020	0.00021	0.00021
	(!A * B * D * Y)	0.00000	0.00001	0.00001
	(!A * B * D * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * D * Y)	-0.00006	-0.00006	-0.00005
	(!A * B * !D * Y)	0.00021	0.00021	0.00022
	(!A * B * !D * Y)	0.00000	0.00001	0.00001
	(!A * B * !D * Y)	-0.00007	-0.00007	-0.00007
	(!A * B * !D * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7R	(!C * Y)	-0.00031	-0.00030	-0.00030
	(!C * Y)	-0.00001	-0.00001	-0.00001
	(!C * Y)	0.00003	0.00003	0.00003
	(!C * Y)	0.00006	0.00006	0.00006
	(!B * C * Y)	-0.00031	-0.00030	-0.00030
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	0.00003	0.00003	0.00003
	(!B * C * Y)	0.00006	0.00006	0.00006
	(!A * B * C * Y)	-0.00031	-0.00030	-0.00030
	(!A * B * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * Y)	0.00003	0.00003	0.00003
	(!A * B * C * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for D falling (conditional):

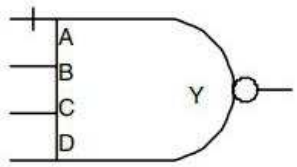
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X2H7R	(!C * Y)	0.00030	0.00031	0.00031
	(!C * Y)	0.00001	0.00001	0.00001
	(!C * Y)	-0.00003	-0.00003	-0.00003
	(!C * Y)	-0.00006	-0.00006	-0.00006
	(!B * C * Y)	0.00030	0.00030	0.00031
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00003	-0.00003	-0.00003
	(!B * C * Y)	-0.00006	-0.00006	-0.00006
	(!A * B * C * Y)	0.00030	0.00031	0.00031
	(!A * B * C * Y)	0.00001	0.00001	0.00001
	(!A * B * C * Y)	-0.00003	-0.00003	-0.00003
	(!A * B * C * Y)	-0.00006	-0.00006	-0.00006

NAND4X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X3H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X3H7R	0.00157	0.00155	0.00159	0.00164	0.04993

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X3H7R	0.00000	0.11490	0.52137

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X3H7R	A->Y (FR)	0.01917	0.11271	0.43004
	B->Y (FR)	0.01845	0.10997	0.42689
	C->Y (FR)	0.01721	0.10666	0.42353
	D->Y (FR)	0.01465	0.10201	0.41983

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X3H7R	A->Y (RF)	0.04150	0.18366	0.59207
	B->Y (RF)	0.03951	0.18586	0.62039
	C->Y (RF)	0.03532	0.18627	0.64950
	D->Y (RF)	0.02716	0.17507	0.63123

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X3H7R	A	0.00290	0.00308	0.00383
	A	-0.00028	-0.00027	-0.00027
	A	0.00034	0.00035	0.00035
	A	-0.00005	0.00009	0.00083
	B	0.00257	0.00273	0.00349
	B	-0.00027	-0.00027	-0.00027
	B	0.00021	0.00025	0.00025
	B	-0.00002	0.00012	0.00087
	C	0.00223	0.00238	0.00316
	C	-0.00028	-0.00027	-0.00026
	C	0.00010	0.00015	0.00019
	C	-0.00007	0.00012	0.00088
	D	0.00180	0.00196	0.00293
	D	-0.00028	-0.00027	-0.00026
	D	0.00003	0.00005	0.00007
	D	-0.00012	0.00007	0.00102

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X3H7R	A	-0.00023	-0.00015	0.00015
	A	0.00027	0.00028	0.00028
	A	-0.00035	-0.00035	-0.00034
	A	0.00295	0.00302	0.00332
	B	-0.00022	-0.00014	0.00022
	B	0.00027	0.00028	0.00028
	B	-0.00025	-0.00025	-0.00021
	B	0.00250	0.00258	0.00294
	C	-0.00022	-0.00013	0.00034
	C	0.00027	0.00027	0.00028
	C	-0.00016	-0.00015	-0.00010
	C	0.00211	0.00219	0.00266
	D	-0.00022	-0.00007	0.00074
	D	0.00027	0.00027	0.00028
	D	-0.00005	-0.00005	-0.00003
	D	0.00169	0.00183	0.00266

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7R	(B * C * !D * Y)	-0.00034	-0.00034	-0.00033
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00003	0.00003	0.00003
	(B * C * !D * Y)	0.00042	0.00042	0.00042
	(B * !C * D * Y)	-0.00034	-0.00033	-0.00033
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * Y)	0.00003	0.00003	0.00003
	(B * !C * D * Y)	0.00042	0.00043	0.00043
	(B * !C * !D * Y)	-0.00034	-0.00034	-0.00033
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00003	0.00003	0.00003
	(B * !C * !D * Y)	0.00042	0.00042	0.00043
	(!B * C * D * Y)	-0.00034	-0.00033	-0.00033
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00002	0.00002	0.00002
	(!B * C * D * Y)	0.00044	0.00044	0.00045
	(!B * !D * Y)	-0.00034	-0.00033	-0.00033
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00003	0.00003	0.00003
	(!B * !D * Y)	0.00043	0.00043	0.00043
	(!B * !C * D * Y)	-0.00034	-0.00033	-0.00033
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	0.00003	0.00003	0.00003
	(!B * !C * D * Y)	0.00043	0.00043	0.00043

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7R	(B * C * !D * Y)	0.00034	0.00034	0.00034
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * C * !D * Y)	-0.00042	-0.00039	-0.00035
	(B * !C * D * Y)	0.00033	0.00034	0.00034
	(B * !C * D * Y)	0.00001	0.00001	0.00001
	(B * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * D * Y)	-0.00043	-0.00040	-0.00036
	(B * !C * !D * Y)	0.00033	0.00034	0.00034
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !D * Y)	-0.00043	-0.00040	-0.00036
	(!B * C * D * Y)	0.00033	0.00034	0.00034
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * D * Y)	-0.00044	-0.00041	-0.00038
	(!B * !D * Y)	0.00033	0.00034	0.00034
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !D * Y)	-0.00043	-0.00041	-0.00038
	(!B * !C * D * Y)	0.00033	0.00034	0.00034
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * !C * D * Y)	-0.00043	-0.00042	-0.00039

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7R	(A * C * !D * Y)	-0.00034	-0.00034	-0.00034
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * Y)	0.00002	0.00002	0.00002
	(A * C * !D * Y)	0.00042	0.00042	0.00043
	(A * !C * D * Y)	-0.00034	-0.00034	-0.00034
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	0.00002	0.00002	0.00002
	(A * !C * D * Y)	0.00043	0.00044	0.00044
	(A * !C * !D * Y)	-0.00034	-0.00034	-0.00034
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * Y)	0.00002	0.00003	0.00003
	(A * !C * !D * Y)	0.00042	0.00043	0.00043
	(!A * C * D * Y)	-0.00034	-0.00034	-0.00034
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00008	0.00008	0.00008
	(!A * C * D * Y)	0.00014	0.00015	0.00015
	(!A * C * !D * Y)	-0.00035	-0.00035	-0.00035
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !D * Y)	0.00010	0.00010	0.00010
	(!A * C * !D * Y)	0.00014	0.00014	0.00014
	(!A * !C * D * Y)	-0.00035	-0.00034	-0.00034
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * !C * D * Y)	0.00010	0.00010	0.00010
	(!A * !C * D * Y)	0.00015	0.00015	0.00015
	(!A * !C * !D * Y)	-0.00034	-0.00034	-0.00034
	(!A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !D * Y)	0.00011	0.00011	0.00011
	(!A * !C * !D * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7R	(A * C * !D * Y)	0.00034	0.00034	0.00035
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * C * !D * Y)	-0.00042	-0.00039	-0.00035
	(A * !C * D * Y)	0.00034	0.00034	0.00034
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * D * Y)	-0.00043	-0.00041	-0.00038
	(A * !C * !D * Y)	0.00034	0.00034	0.00034
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	-0.00003	-0.00003	-0.00002
	(A * !C * !D * Y)	-0.00043	-0.00041	-0.00038
	(!A * C * D * Y)	0.00034	0.00034	0.00034
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00008	-0.00008	-0.00008
	(!A * C * D * Y)	-0.00014	-0.00014	-0.00014
	(!A * C * !D * Y)	0.00035	0.00035	0.00035
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	-0.00010	-0.00010	-0.00010
	(!A * C * !D * Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * D * Y)	0.00034	0.00035	0.00035
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	-0.00010	-0.00010	-0.00010
	(!A * !C * D * Y)	-0.00015	-0.00015	-0.00015
	(!A * !C * !D * Y)	0.00034	0.00034	0.00034
	(!A * !C * !D * Y)	0.00001	0.00001	0.00001
	(!A * !C * !D * Y)	-0.00011	-0.00011	-0.00011
	(!A * !C * !D * Y)	-0.00015	-0.00015	-0.00015

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7R	(A * B * !D * Y)	-0.00035	-0.00035	-0.00035
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * Y)	0.00002	0.00002	0.00002
	(A * B * !D * Y)	0.00042	0.00042	0.00043
	(!B * D * Y)	-0.00036	-0.00036	-0.00036
	(!B * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * D * Y)	0.00007	0.00007	0.00007
	(!B * D * Y)	0.00015	0.00015	0.00015
	(!B * !D * Y)	-0.00037	-0.00036	-0.00036
	(!B * !D * Y)	-0.00001	-0.00001	-0.00000
	(!B * !D * Y)	0.00010	0.00010	0.00010
	(!B * !D * Y)	0.00016	0.00016	0.00016
	(!A * B * D * Y)	-0.00036	-0.00036	-0.00036
	(!A * B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * D * Y)	0.00007	0.00007	0.00007
	(!A * B * D * Y)	0.00013	0.00013	0.00013
	(!A * B * !D * Y)	-0.00036	-0.00036	-0.00036
	(!A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !D * Y)	0.00010	0.00010	0.00010
	(!A * B * !D * Y)	0.00013	0.00013	0.00013

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7R	(A * B * !D * Y)	0.00035	0.00037	0.00041
	(A * B * !D * Y)	0.00001	0.00001	0.00001
	(A * B * !D * Y)	-0.00002	-0.00002	-0.00002
	(A * B * !D * Y)	-0.00042	-0.00039	-0.00034
	(!B * D * Y)	0.00036	0.00036	0.00037
	(!B * D * Y)	0.00001	0.00001	0.00001
	(!B * D * Y)	-0.00007	-0.00007	-0.00007
	(!B * D * Y)	-0.00015	-0.00015	-0.00015
	(!B * !D * Y)	0.00037	0.00037	0.00038
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00010	-0.00010	-0.00010
	(!B * !D * Y)	-0.00016	-0.00016	-0.00016
	(!A * B * D * Y)	0.00036	0.00036	0.00037
	(!A * B * D * Y)	0.00001	0.00001	0.00001
	(!A * B * D * Y)	-0.00007	-0.00007	-0.00007
	(!A * B * D * Y)	-0.00013	-0.00013	-0.00013
	(!A * B * !D * Y)	0.00036	0.00037	0.00038
	(!A * B * !D * Y)	0.00001	0.00001	0.00001
	(!A * B * !D * Y)	-0.00010	-0.00010	-0.00010
	(!A * B * !D * Y)	-0.00013	-0.00013	-0.00013

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7R	(!C * Y)	-0.00049	-0.00049	-0.00048
	(!C * Y)	-0.00001	-0.00001	-0.00001
	(!C * Y)	0.00004	0.00005	0.00005
	(!C * Y)	0.00014	0.00015	0.00015
	(!B * C * Y)	-0.00049	-0.00049	-0.00048
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00005	0.00005	0.00005
	(!B * C * Y)	0.00014	0.00014	0.00014
	(!A * B * C * Y)	-0.00049	-0.00049	-0.00048
	(!A * B * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * Y)	0.00005	0.00005	0.00005
	(!A * B * C * Y)	0.00013	0.00013	0.00013

Passive power(pJ) for D falling (conditional):

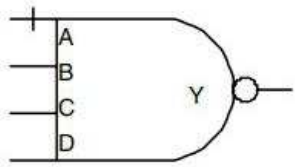
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X3H7R	(!C * Y)	0.00049	0.00049	0.00049
	(!C * Y)	0.00001	0.00001	0.00001
	(!C * Y)	-0.00004	-0.00004	-0.00004
	(!C * Y)	-0.00015	-0.00015	-0.00014
	(!B * C * Y)	0.00049	0.00049	0.00049
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00005	-0.00005	-0.00004
	(!B * C * Y)	-0.00014	-0.00014	-0.00014
	(!A * B * C * Y)	0.00049	0.00049	0.00049
	(!A * B * C * Y)	0.00001	0.00001	0.00001
	(!A * B * C * Y)	-0.00005	-0.00005	-0.00005
	(!A * B * C * Y)	-0.00013	-0.00013	-0.00013

NAND4X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X4H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X4H7R	0.00190	0.00186	0.00193	0.00193	0.06440

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X4H7R	0.00000	0.14645	0.67928

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X4H7R	A->Y (FR)	0.01886	0.11270	0.43307
	B->Y (FR)	0.01802	0.10998	0.42996
	C->Y (FR)	0.01679	0.10681	0.42728
	D->Y (FR)	0.01441	0.10252	0.42343

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X4H7R	A->Y (RF)	0.03990	0.18181	0.59154
	B->Y (RF)	0.03791	0.18418	0.61903
	C->Y (RF)	0.03413	0.18521	0.64982
	D->Y (RF)	0.02683	0.17472	0.63120

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X4H7R	A	0.00366	0.00389	0.00485
	A	-0.00036	-0.00036	-0.00033
	A	0.00045	0.00045	0.00046
	A	0.00002	0.00018	0.00112
	B	0.00327	0.00347	0.00443
	B	-0.00037	-0.00036	-0.00029
	B	0.00028	0.00033	0.00034
	B	0.00005	0.00022	0.00116
	C	0.00286	0.00305	0.00403
	C	-0.00036	-0.00036	-0.00035
	C	0.00016	0.00020	0.00023
	C	0.00003	0.00022	0.00117
	D	0.00236	0.00257	0.00378
	D	-0.00037	-0.00036	-0.00035
	D	0.00004	0.00006	0.00009
	D	-0.00002	0.00022	0.00140

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X4H7R	A	-0.00030	-0.00019	0.00019
	A	0.00036	0.00036	0.00037
	A	-0.00046	-0.00045	-0.00045
	A	0.00364	0.00373	0.00413
	B	-0.00029	-0.00018	0.00028
	B	0.00036	0.00036	0.00037
	B	-0.00034	-0.00033	-0.00028
	B	0.00310	0.00320	0.00368
	C	-0.00028	-0.00016	0.00042
	C	0.00035	0.00036	0.00037
	C	-0.00022	-0.00020	-0.00016
	C	0.00259	0.00273	0.00334
	D	-0.00027	-0.00009	0.00092
	D	0.00036	0.00036	0.00037
	D	-0.00007	-0.00006	-0.00004
	D	0.00209	0.00227	0.00330

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7R	(B * C * !D * Y)	-0.00045	-0.00044	-0.00044
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00003	0.00004	0.00004
	(B * C * !D * Y)	0.00047	0.00047	0.00048
	(B * !C * D * Y)	-0.00044	-0.00044	-0.00044
	(B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * D * Y)	0.00003	0.00003	0.00004
	(B * !C * D * Y)	0.00047	0.00048	0.00048
	(B * !C * !D * Y)	-0.00045	-0.00044	-0.00044
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00004	0.00004	0.00004
	(B * !C * !D * Y)	0.00047	0.00047	0.00048
	(!B * C * D * Y)	-0.00044	-0.00044	-0.00044
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00003	0.00003	0.00003
	(!B * C * D * Y)	0.00050	0.00050	0.00050
	(!B * !D * Y)	-0.00044	-0.00044	-0.00044
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00003	0.00003	0.00004
	(!B * !D * Y)	0.00049	0.00049	0.00049
	(!B * !C * D * Y)	-0.00044	-0.00044	-0.00044
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	0.00003	0.00003	0.00004
	(!B * !C * D * Y)	0.00049	0.00049	0.00049

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7R	(B * C * !D * Y)	0.00044	0.00045	0.00045
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00004	-0.00004	-0.00003
	(B * C * !D * Y)	-0.00047	-0.00044	-0.00039
	(B * !C * D * Y)	0.00044	0.00044	0.00044
	(B * !C * D * Y)	0.00001	0.00001	0.00001
	(B * !C * D * Y)	-0.00004	-0.00003	-0.00003
	(B * !C * D * Y)	-0.00048	-0.00044	-0.00040
	(B * !C * !D * Y)	0.00044	0.00044	0.00045
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	-0.00004	-0.00004	-0.00004
	(B * !C * !D * Y)	-0.00048	-0.00045	-0.00040
	(!B * C * D * Y)	0.00044	0.00044	0.00045
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00003	-0.00003	-0.00003
	(!B * C * D * Y)	-0.00049	-0.00046	-0.00043
	(!B * !D * Y)	0.00044	0.00044	0.00044
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00004	-0.00003	-0.00003
	(!B * !D * Y)	-0.00049	-0.00046	-0.00043
	(!B * !C * D * Y)	0.00044	0.00044	0.00044
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	-0.00004	-0.00003	-0.00003
	(!B * !C * D * Y)	-0.00049	-0.00046	-0.00043

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7R	(A * C * !D * Y)	-0.00044	-0.00044	-0.00044
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * !D * Y)	0.00003	0.00003	0.00004
	(A * C * !D * Y)	0.00047	0.00047	0.00048
	(A * !C * D * Y)	-0.00044	-0.00044	-0.00044
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	0.00003	0.00003	0.00003
	(A * !C * D * Y)	0.00049	0.00049	0.00049
	(A * !C * !D * Y)	-0.00044	-0.00044	-0.00043
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !D * Y)	0.00003	0.00003	0.00004
	(A * !C * !D * Y)	0.00047	0.00048	0.00048
	(!A * C * D * Y)	-0.00044	-0.00044	-0.00044
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00010	0.00010	0.00010
	(!A * C * D * Y)	0.00013	0.00013	0.00013
	(!A * C * !D * Y)	-0.00045	-0.00045	-0.00044
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * Y)	0.00013	0.00013	0.00013
	(!A * C * !D * Y)	0.00012	0.00012	0.00013
	(!A * !C * D * Y)	-0.00044	-0.00044	-0.00044
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * Y)	0.00014	0.00014	0.00014
	(!A * !C * D * Y)	0.00014	0.00014	0.00014
	(!A * !C * !D * Y)	-0.00044	-0.00044	-0.00044
	(!A * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * !D * Y)	0.00014	0.00014	0.00014
	(!A * !C * !D * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7R	(A * C * !D * Y)	0.00044	0.00044	0.00046
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	-0.00004	-0.00003	-0.00003
	(A * C * !D * Y)	-0.00047	-0.00043	-0.00038
	(A * !C * D * Y)	0.00044	0.00044	0.00044
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * D * Y)	-0.00048	-0.00046	-0.00042
	(A * !C * !D * Y)	0.00044	0.00044	0.00044
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	-0.00004	-0.00003	-0.00003
	(A * !C * !D * Y)	-0.00048	-0.00046	-0.00042
	(!A * C * D * Y)	0.00044	0.00044	0.00044
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00010	-0.00010	-0.00010
	(!A * C * D * Y)	-0.00013	-0.00013	-0.00013
	(!A * C * !D * Y)	0.00045	0.00045	0.00045
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	-0.00013	-0.00013	-0.00013
	(!A * C * !D * Y)	-0.00013	-0.00012	-0.00012
	(!A * !C * D * Y)	0.00044	0.00044	0.00045
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * D * Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * !D * Y)	0.00044	0.00044	0.00044
	(!A * !C * !D * Y)	0.00001	0.00001	0.00001
	(!A * !C * !D * Y)	-0.00014	-0.00014	-0.00014
	(!A * !C * !D * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7R	(A * B * !D * Y)	-0.00046	-0.00046	-0.00045
	(A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(A * B * !D * Y)	0.00002	0.00003	0.00003
	(A * B * !D * Y)	0.00048	0.00048	0.00049
	(!B * D * Y)	-0.00047	-0.00047	-0.00047
	(!B * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * D * Y)	0.00010	0.00010	0.00010
	(!B * D * Y)	0.00013	0.00013	0.00013
	(!B * !D * Y)	-0.00047	-0.00047	-0.00047
	(!B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !D * Y)	0.00013	0.00013	0.00013
	(!B * !D * Y)	0.00014	0.00014	0.00014
	(!A * B * D * Y)	-0.00047	-0.00047	-0.00047
	(!A * B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * D * Y)	0.00010	0.00010	0.00010
	(!A * B * D * Y)	0.00011	0.00011	0.00011
	(!A * B * !D * Y)	-0.00047	-0.00047	-0.00046
	(!A * B * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * !D * Y)	0.00013	0.00013	0.00013
	(!A * B * !D * Y)	0.00011	0.00012	0.00012

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7R	(A * B * !D * Y)	0.00046	0.00048	0.00053
	(A * B * !D * Y)	0.00001	0.00001	0.00001
	(A * B * !D * Y)	-0.00003	-0.00003	-0.00002
	(A * B * !D * Y)	-0.00047	-0.00044	-0.00038
	(!B * D * Y)	0.00047	0.00047	0.00047
	(!B * D * Y)	0.00001	0.00001	0.00001
	(!B * D * Y)	-0.00009	-0.00009	-0.00009
	(!B * D * Y)	-0.00013	-0.00013	-0.00013
	(!B * !D * Y)	0.00048	0.00048	0.00049
	(!B * !D * Y)	0.00001	0.00001	0.00001
	(!B * !D * Y)	-0.00013	-0.00013	-0.00013
	(!B * !D * Y)	-0.00014	-0.00014	-0.00014
	(!A * B * D * Y)	0.00047	0.00047	0.00047
	(!A * B * D * Y)	0.00001	0.00001	0.00001
	(!A * B * D * Y)	-0.00010	-0.00010	-0.00009
	(!A * B * D * Y)	-0.00011	-0.00011	-0.00011
	(!A * B * !D * Y)	0.00047	0.00048	0.00049
	(!A * B * !D * Y)	0.00001	0.00001	0.00001
	(!A * B * !D * Y)	-0.00013	-0.00013	-0.00013
	(!A * B * !D * Y)	-0.00012	-0.00012	-0.00011

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7R	(!C * Y)	-0.00059	-0.00059	-0.00058
	(!C * Y)	-0.00001	-0.00001	-0.00001
	(!C * Y)	0.00006	0.00006	0.00007
	(!C * Y)	0.00013	0.00013	0.00013
	(!B * C * Y)	-0.00059	-0.00059	-0.00057
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00006	0.00007	0.00007
	(!B * C * Y)	0.00012	0.00012	0.00013
	(!A * B * C * Y)	-0.00059	-0.00059	-0.00058
	(!A * B * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * B * C * Y)	0.00007	0.00007	0.00007
	(!A * B * C * Y)	0.00011	0.00011	0.00012

Passive power(pJ) for D falling (conditional):

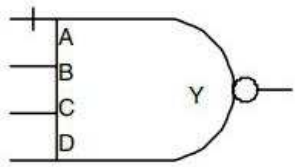
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X4H7R	(!C * Y)	0.00059	0.00059	0.00060
	(!C * Y)	0.00001	0.00001	0.00002
	(!C * Y)	-0.00006	-0.00006	-0.00006
	(!C * Y)	-0.00013	-0.00013	-0.00012
	(!B * C * Y)	0.00059	0.00059	0.00059
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00006	-0.00006	-0.00006
	(!B * C * Y)	-0.00012	-0.00012	-0.00012
	(!A * B * C * Y)	0.00059	0.00059	0.00060
	(!A * B * C * Y)	0.00001	0.00001	0.00001
	(!A * B * C * Y)	-0.00007	-0.00006	-0.00007
	(!A * B * C * Y)	-0.00011	-0.00011	-0.00011

NAND4X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NAND4 cell provides a logical NAND of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	x	x	x	1
1	0	x	x	1
1	1	0	x	1
1	1	1	0	1
1	1	1	1	0

Footprint

Cell Name	Area
NAND4X6H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
NAND4X6H7R	0.00266	0.00269	0.00272	0.00277	0.09658

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NAND4X6H7R	0.00000	0.21968	1.01892

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X6H7R	A->Y (FR)	0.01664	0.10986	0.43106
	B->Y (FR)	0.01601	0.10711	0.42834
	C->Y (FR)	0.01468	0.10374	0.42395
	D->Y (FR)	0.01258	0.09968	0.42173

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NAND4X6H7R	A->Y (RF)	0.03510	0.17713	0.58900
	B->Y (RF)	0.03324	0.17970	0.61913
	C->Y (RF)	0.02928	0.18021	0.64629
	D->Y (RF)	0.02271	0.17069	0.63020

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X6H7R	A	0.00490	0.00527	0.00677
	A	-0.00055	-0.00055	-0.00054
	A	0.00067	0.00068	0.00068
	A	-0.00031	-0.00004	0.00144
	B	0.00431	0.00465	0.00617
	B	-0.00055	-0.00054	-0.00049
	B	0.00049	0.00049	0.00058
	B	-0.00034	0.00000	0.00148
	C	0.00372	0.00400	0.00556
	C	-0.00055	-0.00054	-0.00054
	C	0.00017	0.00030	0.00036
	C	-0.00030	0.00001	0.00152
	D	0.00296	0.00336	0.00531
	D	-0.00055	-0.00054	-0.00053
	D	0.00007	0.00010	0.00017
	D	-0.00031	0.00006	0.00196

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NAND4X6H7R	A	-0.00042	-0.00027	0.00042
	A	0.00054	0.00055	0.00055
	A	-0.00068	-0.00068	-0.00067
	A	0.00521	0.00535	0.00605
	B	-0.00042	-0.00026	0.00056
	B	0.00054	0.00055	0.00055
	B	-0.00054	-0.00049	-0.00049
	B	0.00443	0.00458	0.00542
	C	-0.00041	-0.00022	0.00080
	C	0.00054	0.00055	0.00055
	C	-0.00032	-0.00030	-0.00017
	C	0.00371	0.00387	0.00492
	D	-0.00041	-0.00012	0.00153
	D	0.00054	0.00054	0.00055
	D	-0.00010	-0.00009	-0.00007
	D	0.00283	0.00319	0.00487

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7R	(B * C * !D * Y)	-0.00061	-0.00061	-0.00060
	(B * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y)	0.00005	0.00005	0.00005
	(B * C * !D * Y)	0.00070	0.00071	0.00071
	(B * !C * D * Y)	-0.00061	-0.00061	-0.00060
	(B * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * D * Y)	0.00005	0.00005	0.00005
	(B * !C * D * Y)	0.00071	0.00072	0.00072
	(B * !C * !D * Y)	-0.00061	-0.00061	-0.00061
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00001
	(B * !C * !D * Y)	0.00005	0.00006	0.00006
	(B * !C * !D * Y)	0.00070	0.00071	0.00071
	(!B * C * D * Y)	-0.00061	-0.00061	-0.00060
	(!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * D * Y)	0.00004	0.00004	0.00004
	(!B * C * D * Y)	0.00074	0.00075	0.00076
	(!B * !D * Y)	-0.00061	-0.00061	-0.00060
	(!B * !D * Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * Y)	0.00005	0.00005	0.00006
	(!B * !D * Y)	0.00072	0.00072	0.00073
	(!B * !C * D * Y)	-0.00061	-0.00061	-0.00060
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(!B * !C * D * Y)	0.00005	0.00005	0.00005
	(!B * !C * D * Y)	0.00072	0.00073	0.00073

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7R	(B * C * !D * Y)	0.00061	0.00061	0.00061
	(B * C * !D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y)	-0.00005	-0.00005	-0.00005
	(B * C * !D * Y)	-0.00071	-0.00065	-0.00058
	(B * !C * D * Y)	0.00060	0.00061	0.00061
	(B * !C * D * Y)	0.00002	0.00002	0.00002
	(B * !C * D * Y)	-0.00005	-0.00005	-0.00005
	(B * !C * D * Y)	-0.00072	-0.00067	-0.00059
	(B * !C * !D * Y)	0.00061	0.00061	0.00061
	(B * !C * !D * Y)	0.00001	0.00002	0.00002
	(B * !C * !D * Y)	-0.00006	-0.00006	-0.00005
	(B * !C * !D * Y)	-0.00071	-0.00067	-0.00060
	(!B * C * D * Y)	0.00060	0.00061	0.00061
	(!B * C * D * Y)	0.00002	0.00002	0.00002
	(!B * C * D * Y)	-0.00004	-0.00004	-0.00004
	(!B * C * D * Y)	-0.00073	-0.00069	-0.00064
	(!B * !D * Y)	0.00060	0.00061	0.00061
	(!B * !D * Y)	0.00001	0.00002	0.00002
	(!B * !D * Y)	-0.00006	-0.00005	-0.00005
	(!B * !D * Y)	-0.00073	-0.00069	-0.00064
	(!B * !C * D * Y)	0.00060	0.00061	0.00061
	(!B * !C * D * Y)	0.00001	0.00002	0.00002
	(!B * !C * D * Y)	-0.00005	-0.00005	-0.00005
	(!B * !C * D * Y)	-0.00073	-0.00069	-0.00064

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7R	(A * C * !D * Y)	-0.00063	-0.00062	-0.00061
	(A * C * !D * Y)	-0.00002	-0.00002	-0.00000
	(A * C * !D * Y)	0.00004	0.00005	0.00005
	(A * C * !D * Y)	0.00071	0.00071	0.00072
	(A * !C * D * Y)	-0.00062	-0.00062	-0.00062
	(A * !C * D * Y)	-0.00002	-0.00002	-0.00002
	(A * !C * D * Y)	0.00004	0.00004	0.00004
	(A * !C * D * Y)	0.00074	0.00074	0.00075
	(A * !C * !D * Y)	-0.00062	-0.00062	-0.00061
	(A * !C * !D * Y)	-0.00002	-0.00002	-0.00001
	(A * !C * !D * Y)	0.00005	0.00005	0.00005
	(A * !C * !D * Y)	0.00071	0.00072	0.00072
	(!A * C * D * Y)	-0.00062	-0.00062	-0.00061
	(!A * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * D * Y)	0.00016	0.00016	0.00016
	(!A * C * D * Y)	0.00019	0.00019	0.00019
	(!A * C * !D * Y)	-0.00063	-0.00063	-0.00063
	(!A * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !D * Y)	0.00021	0.00021	0.00021
	(!A * C * !D * Y)	0.00018	0.00018	0.00018
	(!A * !C * D * Y)	-0.00062	-0.00062	-0.00062
	(!A * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(!A * !C * D * Y)	0.00021	0.00021	0.00021
	(!A * !C * D * Y)	0.00019	0.00019	0.00019
	(!A * !C * !D * Y)	-0.00062	-0.00062	-0.00062
	(!A * !C * !D * Y)	-0.00002	-0.00002	-0.00001
	(!A * !C * !D * Y)	0.00022	0.00022	0.00022
	(!A * !C * !D * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7R	(A * C * !D * Y)	0.00062	0.00063	0.00065
	(A * C * !D * Y)	0.00002	0.00002	0.00002
	(A * C * !D * Y)	-0.00005	-0.00005	-0.00004
	(A * C * !D * Y)	-0.00071	-0.00065	-0.00056
	(A * !C * D * Y)	0.00062	0.00062	0.00062
	(A * !C * D * Y)	0.00002	0.00002	0.00002
	(A * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(A * !C * D * Y)	-0.00073	-0.00069	-0.00062
	(A * !C * !D * Y)	0.00061	0.00062	0.00062
	(A * !C * !D * Y)	0.00001	0.00002	0.00002
	(A * !C * !D * Y)	-0.00005	-0.00005	-0.00005
	(A * !C * !D * Y)	-0.00072	-0.00069	-0.00063
	(!A * C * D * Y)	0.00061	0.00062	0.00062
	(!A * C * D * Y)	0.00002	0.00002	0.00002
	(!A * C * D * Y)	-0.00016	-0.00016	-0.00016
	(!A * C * D * Y)	-0.00019	-0.00019	-0.00018
	(!A * C * !D * Y)	0.00063	0.00063	0.00064
	(!A * C * !D * Y)	0.00002	0.00002	0.00002
	(!A * C * !D * Y)	-0.00021	-0.00021	-0.00021
	(!A * C * !D * Y)	-0.00018	-0.00018	-0.00018
	(!A * !C * D * Y)	0.00062	0.00063	0.00063
	(!A * !C * D * Y)	0.00001	0.00002	0.00002
	(!A * !C * D * Y)	-0.00021	-0.00021	-0.00021
	(!A * !C * D * Y)	-0.00019	-0.00019	-0.00019
	(!A * !C * !D * Y)	0.00062	0.00062	0.00062
	(!A * !C * !D * Y)	0.00001	0.00002	0.00002
	(!A * !C * !D * Y)	-0.00022	-0.00022	-0.00022
	(!A * !C * !D * Y)	-0.00019	-0.00019	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7R	(A * B * !D * Y)	-0.00063	-0.00062	-0.00061
	(A * B * !D * Y)	-0.00002	-0.00001	-0.00001
	(A * B * !D * Y)	0.00003	0.00004	0.00004
	(A * B * !D * Y)	0.00074	0.00075	0.00075
	(!B * D * Y)	-0.00064	-0.00063	-0.00063
	(!B * D * Y)	-0.00002	-0.00002	-0.00001
	(!B * D * Y)	0.00015	0.00015	0.00016
	(!B * D * Y)	0.00019	0.00019	0.00019
	(!B * !D * Y)	-0.00064	-0.00064	-0.00063
	(!B * !D * Y)	-0.00002	-0.00002	-0.00001
	(!B * !D * Y)	0.00021	0.00021	0.00021
	(!B * !D * Y)	0.00019	0.00019	0.00019
	(!A * B * D * Y)	-0.00064	-0.00063	-0.00062
	(!A * B * D * Y)	-0.00002	-0.00002	-0.00001
	(!A * B * D * Y)	0.00015	0.00015	0.00015
	(!A * B * D * Y)	0.00016	0.00017	0.00017
	(!A * B * !D * Y)	-0.00064	-0.00063	-0.00063
	(!A * B * !D * Y)	-0.00002	-0.00002	-0.00001
	(!A * B * !D * Y)	0.00021	0.00021	0.00021
	(!A * B * !D * Y)	0.00017	0.00018	0.00018

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7R	(A * B * !D * Y)	0.00063	0.00066	0.00071
	(A * B * !D * Y)	0.00001	0.00002	0.00002
	(A * B * !D * Y)	-0.00004	-0.00004	-0.00003
	(A * B * !D * Y)	-0.00071	-0.00066	-0.00058
	(!B * D * Y)	0.00063	0.00064	0.00064
	(!B * D * Y)	0.00002	0.00002	0.00002
	(!B * D * Y)	-0.00015	-0.00015	-0.00015
	(!B * D * Y)	-0.00019	-0.00019	-0.00019
	(!B * !D * Y)	0.00064	0.00065	0.00066
	(!B * !D * Y)	0.00001	0.00002	0.00002
	(!B * !D * Y)	-0.00021	-0.00021	-0.00021
	(!B * !D * Y)	-0.00019	-0.00019	-0.00019
	(!A * B * D * Y)	0.00064	0.00064	0.00065
	(!A * B * D * Y)	0.00002	0.00002	0.00003
	(!A * B * D * Y)	-0.00015	-0.00015	-0.00015
	(!A * B * D * Y)	-0.00017	-0.00017	-0.00016
	(!A * B * !D * Y)	0.00064	0.00066	0.00068
	(!A * B * !D * Y)	0.00001	0.00002	0.00002
	(!A * B * !D * Y)	-0.00021	-0.00021	-0.00021
	(!A * B * !D * Y)	-0.00018	-0.00018	-0.00017

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7R	(!C * Y)	-0.00085	-0.00085	-0.00084
	(!C * Y)	-0.00002	-0.00002	-0.00002
	(!C * Y)	0.00011	0.00011	0.00011
	(!C * Y)	0.00017	0.00017	0.00017
	(!B * C * Y)	-0.00084	-0.00084	-0.00082
	(!B * C * Y)	-0.00002	-0.00002	-0.00001
	(!B * C * Y)	0.00010	0.00010	0.00011
	(!B * C * Y)	0.00016	0.00017	0.00017
	(!A * B * C * Y)	-0.00084	-0.00084	-0.00082
	(!A * B * C * Y)	-0.00002	-0.00002	-0.00001
	(!A * B * C * Y)	0.00010	0.00011	0.00011
	(!A * B * C * Y)	0.00016	0.00017	0.00017

Passive power(pJ) for D falling (conditional):

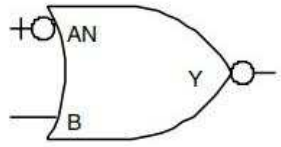
Cell Name	When	Power(pJ)		
		min	avg	max
NAND4X6H7R	(!C * Y)	0.00085	0.00085	0.00085
	(!C * Y)	0.00002	0.00002	0.00002
	(!C * Y)	-0.00010	-0.00010	-0.00010
	(!C * Y)	-0.00017	-0.00017	-0.00017
	(!B * C * Y)	0.00084	0.00085	0.00085
	(!B * C * Y)	0.00002	0.00002	0.00003
	(!B * C * Y)	-0.00010	-0.00010	-0.00010
	(!B * C * Y)	-0.00017	-0.00017	-0.00016
	(!A * B * C * Y)	0.00084	0.00085	0.00085
	(!A * B * C * Y)	0.00002	0.00002	0.00002
	(!A * B * C * Y)	-0.00010	-0.00010	-0.00010
	(!A * B * C * Y)	-0.00017	-0.00016	-0.00016

NOR2BX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX0P5H7R	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX0P5H7R	0.00075	0.00069	0.02280

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX0P5H7R	0.00000	0.18278	0.32431

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX0P5H7R	AN->Y (RR)	0.04051	0.17334	0.50177
	B->Y (FR)	0.02725	0.18688	0.67330

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX0P5H7R	AN->Y (FF)	0.03052	0.10250	0.27538
	B->Y (RF)	0.01287	0.09006	0.39149

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX0P5H7R	AN	0.00051	0.00063	0.00105
	AN	-0.00004	-0.00004	-0.00003
	AN	0.00002	0.00002	0.00002
	AN	0.00081	0.00094	0.00134
	B	0.00049	0.00056	0.00093
	B	-0.00002	-0.00002	-0.00002
	B	0.00003	0.00003	0.00004
	B	-0.00005	0.00002	0.00039

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX0P5H7R	AN	0.00077	0.00090	0.00135
	AN	0.00003	0.00004	0.00004
	AN	-0.00002	-0.00002	-0.00002
	AN	0.00046	0.00059	0.00105
	B	-0.00008	-0.00001	0.00034
	B	0.00002	0.00002	0.00002
	B	-0.00004	-0.00003	-0.00003
	B	0.00045	0.00052	0.00089

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P5H7R	(B * !Y)	-0.00001	0.00011	0.00051
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00060	0.00072	0.00112

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P5H7R	(B * !Y)	0.00069	0.00081	0.00125
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00007	0.00020	0.00064

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P5H7R	(!AN * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * !Y)	0.00000	0.00000	0.00000
	(!AN * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for B falling (conditional):

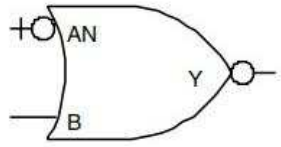
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P5H7R	(!AN * !Y)	0.00004	0.00004	0.00004
	(!AN * !Y)	0.00002	0.00002	0.00002
	(!AN * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !Y)	-0.00025	-0.00025	-0.00025

NOR2BX0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX0P7H7R	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX0P7H7R	0.00076	0.00075	0.02578

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX0P7H7R	0.00000	0.19482	0.35967

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX0P7H7R	AN->Y (RR)	0.03943	0.17350	0.50452
	B->Y (FR)	0.02535	0.18511	0.67337

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX0P7H7R	AN->Y (FF)	0.03064	0.10326	0.27709
	B->Y (RF)	0.01211	0.08868	0.38993

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX0P7H7R	AN	0.00057	0.00069	0.00110
	AN	-0.00006	-0.00005	-0.00005
	AN	0.00002	0.00003	0.00003
	AN	0.00085	0.00097	0.00137
	B	0.00053	0.00060	0.00102
	B	-0.00003	-0.00002	-0.00002
	B	0.00004	0.00004	0.00004
	B	-0.00006	0.00002	0.00043

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX0P7H7R	AN	0.00081	0.00094	0.00138
	AN	0.00005	0.00005	0.00006
	AN	-0.00003	-0.00003	-0.00002
	AN	0.00052	0.00064	0.00109
	B	-0.00009	-0.00002	0.00039
	B	0.00002	0.00002	0.00003
	B	-0.00004	-0.00004	-0.00004
	B	0.00049	0.00056	0.00098

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P7H7R	(B * !Y)	0.00000	0.00011	0.00051
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00062	0.00073	0.00113

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P7H7R	(B * !Y)	0.00072	0.00084	0.00127
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00009	0.00021	0.00064

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P7H7R	(!AN * !Y)	-0.00005	-0.00005	-0.00004
	(!AN * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * !Y)	0.00000	0.00000	0.00001
	(!AN * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for B falling (conditional):

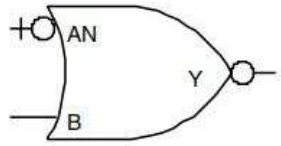
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX0P7H7R	(!AN * !Y)	0.00004	0.00005	0.00005
	(!AN * !Y)	0.00002	0.00003	0.00003
	(!AN * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !Y)	-0.00027	-0.00027	-0.00027

NOR2BX12H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX12H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX12H7R	0.00196	0.00552	0.24248

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX12H7R	0.00000	1.29791	3.09630

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX12H7R	AN->Y (RR)	0.03497	0.17954	0.53226
	B->Y (FR)	0.01422	0.17445	0.67488

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX12H7R	AN->Y (FF)	0.03272	0.11378	0.30116
	B->Y (RF)	-0.00205	0.08056	0.38202

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX12H7R	AN	0.00559	0.00605	0.00728
	AN	-0.00065	-0.00064	-0.00048
	AN	0.00034	0.00035	0.00036
	AN	0.00417	0.00463	0.00582
	B	0.00402	0.00473	0.00943
	B	-0.00025	-0.00024	-0.00022
	B	0.00040	0.00041	0.00041
	B	-0.00057	0.00022	0.00482

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX12H7R	AN	0.00401	0.00448	0.00613
	AN	0.00048	0.00064	0.00065
	AN	-0.00035	-0.00035	-0.00034
	AN	0.00528	0.00573	0.00740
	B	-0.00083	-0.00005	0.00442
	B	0.00022	0.00024	0.00028
	B	-0.00041	-0.00041	-0.00039
	B	0.00333	0.00441	0.00902

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX12H7R	(B * !Y)	0.00076	0.00107	0.00222
	(B * !Y)	0.00018	0.00019	0.00019
	(B * !Y)	-0.00010	-0.00010	-0.00009
	(B * !Y)	0.00250	0.00280	0.00395

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX12H7R	(B * !Y)	0.00308	0.00340	0.00457
	(B * !Y)	-0.00019	-0.00019	-0.00018
	(B * !Y)	0.00009	0.00010	0.00010
	(B * !Y)	0.00128	0.00160	0.00278

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX12H7R	(!AN * !Y)	-0.00014	-0.00014	-0.00014
	(!AN * !Y)	-0.00021	-0.00020	-0.00020
	(!AN * !Y)	0.00003	0.00004	0.00004
	(!AN * !Y)	0.00208	0.00209	0.00210

Passive power(pJ) for B falling (conditional):

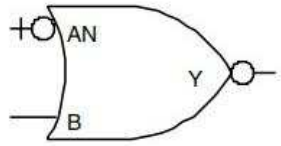
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX12H7R	(!AN * !Y)	0.00014	0.00014	0.00014
	(!AN * !Y)	0.00021	0.00022	0.00022
	(!AN * !Y)	-0.00004	-0.00004	-0.00003
	(!AN * !Y)	-0.00209	-0.00208	-0.00207

NOR2BX16H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX16H7R	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX16H7R	0.00294	0.00739	0.32255

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX16H7R	0.00000	1.78539	4.15671

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX16H7R	AN->Y (RR)	0.03349	0.17665	0.52668
	B->Y (FR)	0.01398	0.17402	0.67432

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX16H7R	AN->Y (FF)	0.03097	0.11062	0.29531
	B->Y (RF)	-0.00302	0.08023	0.38159

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX16H7R	AN	0.00739	0.00809	0.00999
	AN	-0.00093	-0.00085	-0.00083
	AN	0.00044	0.00046	0.00047
	AN	0.00574	0.00643	0.00825
	B	0.00536	0.00631	0.01263
	B	-0.00035	-0.00032	-0.00023
	B	0.00054	0.00055	0.00055
	B	-0.00078	0.00028	0.00646

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX16H7R	AN	0.00561	0.00630	0.00872
	AN	0.00083	0.00085	0.00103
	AN	-0.00046	-0.00046	-0.00044
	AN	0.00708	0.00773	0.01016
	B	-0.00114	-0.00009	0.00590
	B	0.00023	0.00032	0.00036
	B	-0.00055	-0.00054	-0.00051
	B	0.00442	0.00588	0.01207

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX16H7R	(B * !Y)	0.00097	0.00145	0.00323
	(B * !Y)	0.00024	0.00026	0.00027
	(B * !Y)	-0.00014	-0.00014	-0.00014
	(B * !Y)	0.00353	0.00402	0.00580

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX16H7R	(B * !Y)	0.00438	0.00487	0.00668
	(B * !Y)	-0.00027	-0.00026	-0.00024
	(B * !Y)	0.00014	0.00014	0.00014
	(B * !Y)	0.00170	0.00220	0.00403

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX16H7R	(!AN * !Y)	-0.00019	-0.00019	-0.00019
	(!AN * !Y)	-0.00028	-0.00028	-0.00027
	(!AN * !Y)	0.00003	0.00005	0.00006
	(!AN * !Y)	0.00277	0.00279	0.00280

Passive power(pJ) for B falling (conditional):

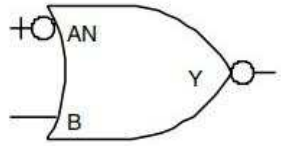
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX16H7R	(!AN * !Y)	0.00019	0.00019	0.00019
	(!AN * !Y)	0.00029	0.00029	0.00030
	(!AN * !Y)	-0.00005	-0.00005	-0.00003
	(!AN * !Y)	-0.00280	-0.00277	-0.00275

NOR2BX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX1H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX1H7R	0.00083	0.00086	0.03062

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX1H7R	0.00000	0.21194	0.40809

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX1H7R	AN->Y (RR)	0.03929	0.17556	0.51083
	B->Y (FR)	0.02373	0.18371	0.67480

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX1H7R	AN->Y (FF)	0.03241	0.10739	0.28620
	B->Y (RF)	0.01170	0.08888	0.39295

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX1H7R	AN	0.00066	0.00078	0.00118
	AN	-0.00007	-0.00007	-0.00007
	AN	0.00003	0.00003	0.00003
	AN	0.00095	0.00107	0.00146
	B	0.00061	0.00069	0.00119
	B	-0.00003	-0.00003	-0.00003
	B	0.00005	0.00005	0.00005
	B	-0.00008	0.00001	0.00049

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX1H7R	AN	0.00091	0.00103	0.00147
	AN	0.00007	0.00007	0.00009
	AN	-0.00003	-0.00003	-0.00003
	AN	0.00059	0.00073	0.00116
	B	-0.00010	-0.00001	0.00047
	B	0.00003	0.00003	0.00003
	B	-0.00005	-0.00005	-0.00005
	B	0.00056	0.00067	0.00116

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1H7R	(B * !Y)	0.00001	0.00012	0.00050
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00071	0.00081	0.00119

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1H7R	(B * !Y)	0.00080	0.00092	0.00133
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00010	0.00022	0.00063

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1H7R	(!AN * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * !Y)	-0.00003	-0.00003	-0.00003
	(!AN * !Y)	0.00000	0.00000	0.00001
	(!AN * !Y)	0.00031	0.00031	0.00031

Passive power(pJ) for B falling (conditional):

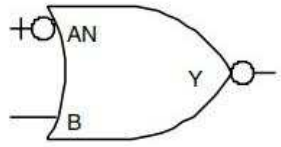
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1H7R	(!AN * !Y)	0.00006	0.00006	0.00006
	(!AN * !Y)	0.00003	0.00003	0.00003
	(!AN * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !Y)	-0.00031	-0.00031	-0.00031

NOR2BX1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX1P4H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX1P4H7R	0.00085	0.00094	0.03487

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX1P4H7R	0.00000	0.22837	0.45609

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX1P4H7R	AN->Y (RR)	0.03911	0.17649	0.51397
	B->Y (FR)	0.02279	0.18300	0.67639

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX1P4H7R	AN->Y (FF)	0.03295	0.10859	0.28788
	B->Y (RF)	0.01130	0.08801	0.39079

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX1P4H7R	AN	0.00077	0.00089	0.00128
	AN	-0.00009	-0.00008	-0.00007
	AN	0.00004	0.00004	0.00004
	AN	0.00102	0.00114	0.00152
	B	0.00070	0.00079	0.00135
	B	-0.00003	-0.00003	-0.00002
	B	0.00005	0.00006	0.00006
	B	-0.00006	0.00005	0.00059

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX1P4H7R	AN	0.00095	0.00107	0.00150
	AN	0.00007	0.00008	0.00010
	AN	-0.00004	-0.00004	-0.00004
	AN	0.00069	0.00081	0.00124
	B	-0.00011	-0.00001	0.00053
	B	0.00002	0.00003	0.00004
	B	-0.00006	-0.00006	-0.00005
	B	0.00062	0.00073	0.00129

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1P4H7R	(B * !Y)	0.00003	0.00013	0.00051
	(B * !Y)	0.00003	0.00003	0.00004
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00074	0.00084	0.00121

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1P4H7R	(B * !Y)	0.00083	0.00094	0.00135
	(B * !Y)	-0.00004	-0.00003	-0.00003
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00012	0.00023	0.00063

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1P4H7R	(!AN * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * !Y)	-0.00003	-0.00003	-0.00003
	(!AN * !Y)	0.00000	0.00001	0.00001
	(!AN * !Y)	0.00033	0.00034	0.00034

Passive power(pJ) for B falling (conditional):

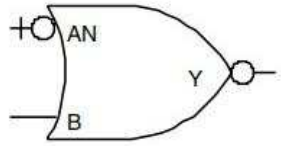
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX1P4H7R	(!AN * !Y)	0.00005	0.00005	0.00005
	(!AN * !Y)	0.00003	0.00003	0.00003
	(!AN * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * !Y)	-0.00034	-0.00034	-0.00033

NOR2BX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX2H7R	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX2H7R	0.00088	0.00100	0.04099

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX2H7R	0.00000	0.25362	0.53172

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX2H7R	AN->Y (RR)	0.03843	0.17786	0.51974
	B->Y (FR)	0.01996	0.18035	0.67581

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX2H7R	AN->Y (FF)	0.03371	0.11008	0.29042
	B->Y (RF)	0.01016	0.08488	0.38526

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX2H7R	AN	0.00085	0.00097	0.00134
	AN	-0.00010	-0.00010	-0.00010
	AN	0.00005	0.00005	0.00005
	AN	0.00108	0.00120	0.00156
	B	0.00072	0.00083	0.00152
	B	-0.00004	-0.00004	-0.00002
	B	0.00007	0.00007	0.00007
	B	-0.00009	0.00003	0.00070

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX2H7R	AN	0.00103	0.00115	0.00158
	AN	0.00010	0.00010	0.00010
	AN	-0.00005	-0.00005	-0.00005
	AN	0.00078	0.00090	0.00133
	B	-0.00013	-0.00001	0.00066
	B	0.00002	0.00004	0.00005
	B	-0.00007	-0.00007	-0.00007
	B	0.00063	0.00079	0.00148

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX2H7R	(B * !Y)	0.00005	0.00015	0.00051
	(B * !Y)	0.00003	0.00004	0.00004
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00079	0.00089	0.00125

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX2H7R	(B * !Y)	0.00090	0.00101	0.00139
	(B * !Y)	-0.00004	-0.00004	-0.00003
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00014	0.00026	0.00065

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX2H7R	(!AN * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * !Y)	0.00001	0.00001	0.00001
	(!AN * !Y)	0.00035	0.00035	0.00035

Passive power(pJ) for B falling (conditional):

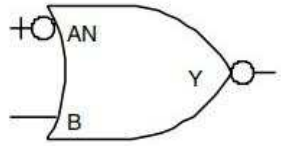
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX2H7R	(!AN * !Y)	0.00006	0.00006	0.00007
	(!AN * !Y)	0.00004	0.00004	0.00004
	(!AN * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * !Y)	-0.00035	-0.00035	-0.00035

NOR2BX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX3H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX3H7R	0.00094	0.00163	0.06351

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX3H7R	0.00000	0.37505	0.83121

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX3H7R	AN->Y (RR)	0.03988	0.18210	0.52961
	B->Y (FR)	0.01850	0.17857	0.67401

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX3H7R	AN->Y (FF)	0.03442	0.11328	0.29728
	B->Y (RF)	0.00975	0.08446	0.38700

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX3H7R	AN	0.00166	0.00183	0.00228
	AN	-0.00015	-0.00015	-0.00013
	AN	0.00008	0.00008	0.00009
	AN	0.00159	0.00176	0.00221
	B	0.00119	0.00139	0.00253
	B	-0.00006	-0.00006	-0.00005
	B	0.00010	0.00010	0.00010
	B	-0.00012	0.00008	0.00120

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX3H7R	AN	0.00147	0.00163	0.00217
	AN	0.00013	0.00015	0.00015
	AN	-0.00008	-0.00008	-0.00008
	AN	0.00150	0.00165	0.00219
	B	-0.00022	-0.00003	0.00106
	B	0.00005	0.00006	0.00007
	B	-0.00010	-0.00010	-0.00010
	B	0.00107	0.00126	0.00239

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX3H7R	(B * !Y)	0.00015	0.00027	0.00072
	(B * !Y)	0.00006	0.00006	0.00006
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00094	0.00106	0.00151

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX3H7R	(B * !Y)	0.00119	0.00131	0.00178
	(B * !Y)	-0.00006	-0.00006	-0.00006
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	0.00038	0.00051	0.00098

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX3H7R	(!AN * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * !Y)	0.00001	0.00001	0.00002
	(!AN * !Y)	0.00063	0.00064	0.00064

Passive power(pJ) for B falling (conditional):

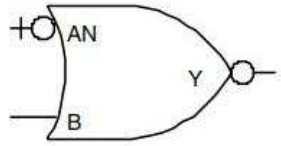
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX3H7R	(!AN * !Y)	0.00005	0.00005	0.00005
	(!AN * !Y)	0.00005	0.00005	0.00005
	(!AN * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !Y)	-0.00064	-0.00063	-0.00063

NOR2BX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX4H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX4H7R	0.00102	0.00188	0.08112

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX4H7R	0.00000	0.46308	1.04608

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX4H7R	AN->Y (RR)	0.03705	0.17951	0.52795
	B->Y (FR)	0.01652	0.17691	0.67522

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX4H7R	AN->Y (FF)	0.03335	0.11249	0.29680
	B->Y (RF)	0.00493	0.08226	0.38277

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX4H7R	AN	0.00193	0.00212	0.00264
	AN	-0.00021	-0.00021	-0.00017
	AN	0.00011	0.00011	0.00011
	AN	0.00173	0.00192	0.00244
	B	0.00140	0.00163	0.00311
	B	-0.00009	-0.00008	-0.00007
	B	0.00013	0.00014	0.00014
	B	-0.00016	0.00010	0.00155

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX4H7R	AN	0.00164	0.00183	0.00246
	AN	0.00017	0.00021	0.00021
	AN	-0.00011	-0.00011	-0.00011
	AN	0.00179	0.00197	0.00260
	B	-0.00029	-0.00004	0.00138
	B	0.00007	0.00008	0.00009
	B	-0.00014	-0.00014	-0.00013
	B	0.00117	0.00147	0.00294

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX4H7R	(B * !Y)	0.00021	0.00035	0.00085
	(B * !Y)	0.00007	0.00007	0.00007
	(B * !Y)	-0.00004	-0.00004	-0.00004
	(B * !Y)	0.00108	0.00121	0.00172

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX4H7R	(B * !Y)	0.00132	0.00146	0.00198
	(B * !Y)	-0.00007	-0.00007	-0.00007
	(B * !Y)	0.00004	0.00004	0.00004
	(B * !Y)	0.00043	0.00057	0.00110

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX4H7R	(!AN * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * !Y)	-0.00007	-0.00007	-0.00007
	(!AN * !Y)	0.00001	0.00001	0.00002
	(!AN * !Y)	0.00070	0.00071	0.00071

Passive power(pJ) for B falling (conditional):

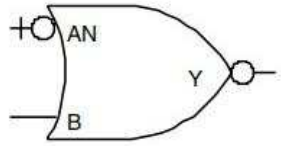
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX4H7R	(!AN * !Y)	0.00006	0.00006	0.00006
	(!AN * !Y)	0.00007	0.00007	0.00007
	(!AN * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !Y)	-0.00071	-0.00071	-0.00070

NOR2BX6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX6H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX6H7R	0.00111	0.00283	0.12173

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX6H7R	0.00000	0.64895	1.54815

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX6H7R	AN->Y (RR)	0.03730	0.18222	0.53573
	B->Y (FR)	0.01566	0.17596	0.67504

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX6H7R	AN->Y (FF)	0.03496	0.11663	0.30571
	B->Y (RF)	0.00224	0.08173	0.38331

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX6H7R	AN	0.00281	0.00303	0.00361
	AN	-0.00036	-0.00032	-0.00025
	AN	0.00017	0.00017	0.00018
	AN	0.00220	0.00243	0.00300
	B	0.00209	0.00244	0.00471
	B	-0.00013	-0.00012	-0.00010
	B	0.00020	0.00020	0.00021
	B	-0.00025	0.00014	0.00236

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX6H7R	AN	0.00215	0.00237	0.00318
	AN	0.00025	0.00032	0.00037
	AN	-0.00018	-0.00017	-0.00017
	AN	0.00268	0.00290	0.00370
	B	-0.00041	-0.00003	0.00214
	B	0.00010	0.00012	0.00017
	B	-0.00021	-0.00020	-0.00020
	B	0.00179	0.00226	0.00450

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX6H7R	(B * !Y)	0.00037	0.00051	0.00107
	(B * !Y)	0.00009	0.00009	0.00010
	(B * !Y)	-0.00005	-0.00005	-0.00004
	(B * !Y)	0.00135	0.00150	0.00206

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX6H7R	(B * !Y)	0.00169	0.00184	0.00241
	(B * !Y)	-0.00010	-0.00009	-0.00009
	(B * !Y)	0.00005	0.00005	0.00005
	(B * !Y)	0.00066	0.00082	0.00140

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX6H7R	(!AN * !Y)	-0.00009	-0.00009	-0.00009
	(!AN * !Y)	-0.00010	-0.00010	-0.00010
	(!AN * !Y)	0.00002	0.00002	0.00003
	(!AN * !Y)	0.00105	0.00105	0.00105

Passive power(pJ) for B falling (conditional):

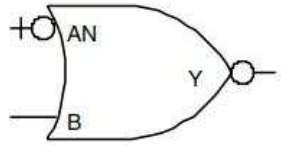
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX6H7R	(!AN * !Y)	0.00009	0.00009	0.00009
	(!AN * !Y)	0.00011	0.00011	0.00011
	(!AN * !Y)	-0.00002	-0.00002	-0.00001
	(!AN * !Y)	-0.00105	-0.00104	-0.00103

NOR2BX8H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2B cell provides a logical NOR of one inverted input (AN) and one non-inverted input (B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
AN	B	Y
0	x	0
1	0	1
1	1	0

Footprint

Cell Name	Area
NOR2BX8H7R	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	AN	B	Y
NOR2BX8H7R	0.00177	0.00370	0.16155

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2BX8H7R	0.00000	0.92616	2.09215

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX8H7R	AN->Y (RR)	0.03339	0.17472	0.52102
	B->Y (FR)	0.01499	0.17504	0.67434

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2BX8H7R	AN->Y (FF)	0.03021	0.10811	0.28978
	B->Y (RF)	0.00018	0.08105	0.38190

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX8H7R	AN	0.00373	0.00411	0.00522
	AN	-0.00047	-0.00042	-0.00041
	AN	0.00022	0.00022	0.00022
	AN	0.00313	0.00351	0.00459
	B	0.00272	0.00319	0.00627
	B	-0.00017	-0.00016	-0.00013
	B	0.00027	0.00027	0.00027
	B	-0.00034	0.00018	0.00319

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2BX8H7R	AN	0.00292	0.00333	0.00467
	AN	0.00041	0.00042	0.00050
	AN	-0.00022	-0.00022	-0.00022
	AN	0.00344	0.00382	0.00516
	B	-0.00053	-0.00002	0.00291
	B	0.00013	0.00016	0.00019
	B	-0.00027	-0.00027	-0.00027
	B	0.00228	0.00298	0.00600

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX8H7R	(B * !Y)	0.00045	0.00073	0.00179
	(B * !Y)	0.00013	0.00014	0.00014
	(B * !Y)	-0.00008	-0.00007	-0.00007
	(B * !Y)	0.00196	0.00224	0.00330

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX8H7R	(B * !Y)	0.00233	0.00262	0.00371
	(B * !Y)	-0.00014	-0.00014	-0.00013
	(B * !Y)	0.00007	0.00007	0.00008
	(B * !Y)	0.00076	0.00107	0.00216

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX8H7R	(!AN * !Y)	-0.00009	-0.00009	-0.00009
	(!AN * !Y)	-0.00013	-0.00013	-0.00013
	(!AN * !Y)	0.00002	0.00002	0.00003
	(!AN * !Y)	0.00140	0.00141	0.00141

Passive power(pJ) for B falling (conditional):

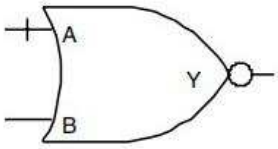
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2BX8H7R	(!AN * !Y)	0.00009	0.00009	0.00009
	(!AN * !Y)	0.00014	0.00014	0.00014
	(!AN * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * !Y)	-0.00141	-0.00140	-0.00138

NOR2X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X0P5H7R	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X0P5H7R	0.00059	0.00074	0.02168

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X0P5H7R	0.00000	0.09063	0.28034

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X0P5H7R	A->Y (FR)	0.02810	0.17906	0.63425
	B->Y (FR)	0.02772	0.18130	0.65402

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X0P5H7R	A->Y (RF)	0.01319	0.08939	0.38149
	B->Y (RF)	0.01304	0.08764	0.38083

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X0P5H7R	A	0.00058	0.00063	0.00090
	A	-0.00006	-0.00006	-0.00006
	A	0.00004	0.00004	0.00004
	A	-0.00010	-0.00006	0.00021
	B	0.00050	0.00056	0.00093
	B	-0.00002	-0.00002	-0.00002
	B	0.00003	0.00003	0.00004
	B	-0.00009	-0.00001	0.00035

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X0P5H7R	A	-0.00006	-0.00001	0.00031
	A	0.00006	0.00006	0.00006
	A	-0.00004	-0.00003	-0.00004
	A	0.00057	0.00065	0.00099
	B	-0.00008	-0.00002	0.00034
	B	0.00002	0.00002	0.00002
	B	-0.00004	-0.00003	-0.00003
	B	0.00049	0.00056	0.00092

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P5H7R	(B * !Y)	-0.00008	-0.00007	-0.00006
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P5H7R	(B * !Y)	0.00008	0.00008	0.00008
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00022	-0.00022	-0.00022

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P5H7R	(A * !Y)	-0.00000	-0.00000	0.00000
	(A * !Y)	-0.00002	-0.00002	-0.00002
	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for B falling (conditional):

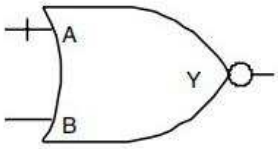
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P5H7R	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00002	0.00002	0.00002
	(A * !Y)	-0.00000	-0.00000	-0.00000
	(A * !Y)	-0.00027	-0.00027	-0.00027

NOR2X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X0P7H7R	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X0P7H7R	0.00062	0.00075	0.02455

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X0P7H7R	0.00000	0.10267	0.31569

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X0P7H7R	A->Y (FR)	0.02578	0.17717	0.63551
	B->Y (FR)	0.02512	0.17891	0.65429

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X0P7H7R	A->Y (RF)	0.01229	0.08781	0.37974
	B->Y (RF)	0.01204	0.08594	0.37872

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X0P7H7R	A	0.00061	0.00066	0.00098
	A	-0.00007	-0.00007	-0.00007
	A	0.00004	0.00004	0.00004
	A	-0.00012	-0.00007	0.00024
	B	0.00051	0.00059	0.00101
	B	-0.00002	-0.00002	-0.00002
	B	0.00004	0.00004	0.00004
	B	-0.00009	-0.00000	0.00041

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X0P7H7R	A	-0.00007	-0.00001	0.00036
	A	0.00007	0.00007	0.00007
	A	-0.00004	-0.00004	-0.00004
	A	0.00060	0.00070	0.00108
	B	-0.00009	-0.00002	0.00039
	B	0.00002	0.00002	0.00003
	B	-0.00004	-0.00004	-0.00003
	B	0.00047	0.00057	0.00100

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P7H7R	(B * !Y)	-0.00009	-0.00008	-0.00007
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P7H7R	(B * !Y)	0.00009	0.00009	0.00009
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00024	-0.00024	-0.00023

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P7H7R	(A * !Y)	-0.00000	-0.00000	0.00000
	(A * !Y)	-0.00002	-0.00002	-0.00002
	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for B falling (conditional):

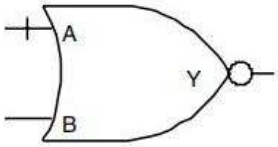
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X0P7H7R	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00002	0.00003	0.00003
	(A * !Y)	-0.00000	-0.00000	-0.00000
	(A * !Y)	-0.00027	-0.00027	-0.00027

NOR2X12H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X12H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X12H7R	0.00529	0.00551	0.23167

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X12H7R	0.00000	0.96885	2.92648

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X12H7R	A->Y (FR)	0.01768	0.17000	0.63972
	B->Y (FR)	0.01415	0.16838	0.65609

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X12H7R	A->Y (RF)	0.00902	0.08177	0.37380
	B->Y (RF)	-0.00241	0.07814	0.37136

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X12H7R	A	0.00576	0.00622	0.00958
	A	-0.00073	-0.00072	-0.00072
	A	0.00040	0.00041	0.00041
	A	-0.00096	-0.00048	0.00285
	B	0.00396	0.00468	0.00940
	B	-0.00026	-0.00024	-0.00024
	B	0.00040	0.00041	0.00041
	B	-0.00106	-0.00027	0.00435

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X12H7R	A	-0.00080	-0.00020	0.00339
	A	0.00072	0.00072	0.00073
	A	-0.00041	-0.00041	-0.00040
	A	0.00518	0.00621	0.00992
	B	-0.00082	-0.00004	0.00444
	B	0.00024	0.00025	0.00029
	B	-0.00041	-0.00041	-0.00039
	B	0.00390	0.00489	0.00950

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X12H7R	(B * !Y)	-0.00101	-0.00090	-0.00075
	(B * !Y)	-0.00011	-0.00011	-0.00010
	(B * !Y)	0.00003	0.00004	0.00004
	(B * !Y)	0.00167	0.00171	0.00181

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X12H7R	(B * !Y)	0.00104	0.00104	0.00105
	(B * !Y)	0.00010	0.00011	0.00011
	(B * !Y)	-0.00004	-0.00003	-0.00002
	(B * !Y)	-0.00167	-0.00166	-0.00165

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X12H7R	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	-0.00020	-0.00020	-0.00019
	(A * !Y)	0.00003	0.00004	0.00004
	(A * !Y)	0.00208	0.00209	0.00210

Passive power(pJ) for B falling (conditional):

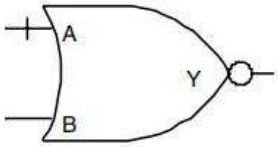
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X12H7R	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00021	0.00021	0.00021
	(A * !Y)	-0.00004	-0.00004	-0.00003
	(A * !Y)	-0.00210	-0.00208	-0.00207

NOR2X16H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X16H7R	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X16H7R	0.00708	0.00731	0.30839

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X16H7R	0.00000	1.29181	3.90197

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X16H7R	A->Y (FR)	0.01744	0.16971	0.63960
	B->Y (FR)	0.01390	0.16811	0.65607

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X16H7R	A->Y (RF)	0.00892	0.08157	0.37381
	B->Y (RF)	-0.00330	0.07789	0.37096

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X16H7R	A	0.00768	0.00829	0.01282
	A	-0.00099	-0.00097	-0.00096
	A	0.00053	0.00055	0.00055
	A	-0.00129	-0.00065	0.00382
	B	0.00511	0.00624	0.01256
	B	-0.00034	-0.00033	-0.00031
	B	0.00054	0.00055	0.00055
	B	-0.00142	-0.00035	0.00586

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X16H7R	A	-0.00107	-0.00027	0.00454
	A	0.00096	0.00097	0.00099
	A	-0.00055	-0.00055	-0.00053
	A	0.00695	0.00828	0.01327
	B	-0.00110	-0.00005	0.00596
	B	0.00031	0.00033	0.00036
	B	-0.00055	-0.00054	-0.00053
	B	0.00510	0.00649	0.01267

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X16H7R	(B * !Y)	-0.00135	-0.00121	-0.00101
	(B * !Y)	-0.00015	-0.00014	-0.00014
	(B * !Y)	0.00005	0.00005	0.00005
	(B * !Y)	0.00222	0.00228	0.00242

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X16H7R	(B * !Y)	0.00139	0.00140	0.00141
	(B * !Y)	0.00014	0.00014	0.00015
	(B * !Y)	-0.00005	-0.00005	-0.00003
	(B * !Y)	-0.00222	-0.00220	-0.00219

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X16H7R	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	-0.00027	-0.00027	-0.00027
	(A * !Y)	0.00005	0.00005	0.00005
	(A * !Y)	0.00274	0.00276	0.00277

Passive power(pJ) for B falling (conditional):

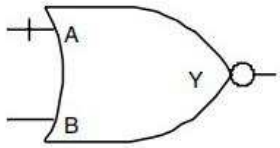
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X16H7R	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	0.00028	0.00028	0.00029
	(A * !Y)	-0.00005	-0.00005	-0.00004
	(A * !Y)	-0.00276	-0.00275	-0.00272

NOR2X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X1H7R	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X1H7R	0.00071	0.00082	0.02918

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X1H7R	0.00000	0.11979	0.36411

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X1H7R	A->Y (FR)	0.02417	0.17599	0.63709
	B->Y (FR)	0.02289	0.17698	0.65500

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X1H7R	A->Y (RF)	0.01183	0.08796	0.38327
	B->Y (RF)	0.01136	0.08580	0.38189

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X1H7R	A	0.00070	0.00076	0.00113
	A	-0.00009	-0.00009	-0.00009
	A	0.00005	0.00005	0.00005
	A	-0.00014	-0.00008	0.00028
	B	0.00057	0.00066	0.00116
	B	-0.00003	-0.00003	-0.00003
	B	0.00005	0.00005	0.00005
	B	-0.00011	-0.00001	0.00048

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X1H7R	A	-0.00009	-0.00002	0.00041
	A	0.00009	0.00009	0.00009
	A	-0.00005	-0.00005	-0.00005
	A	0.00069	0.00080	0.00124
	B	-0.00010	-0.00001	0.00047
	B	0.00003	0.00003	0.00003
	B	-0.00005	-0.00005	-0.00005
	B	0.00055	0.00066	0.00116

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1H7R	(B * !Y)	-0.00011	-0.00010	-0.00009
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	0.00000	0.00001	0.00001
	(B * !Y)	0.00026	0.00026	0.00027

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1H7R	(B * !Y)	0.00011	0.00011	0.00011
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1H7R	(A * !Y)	-0.00000	-0.00000	0.00000
	(A * !Y)	-0.00003	-0.00003	-0.00003
	(A * !Y)	0.00000	0.00001	0.00001
	(A * !Y)	0.00030	0.00030	0.00030

Passive power(pJ) for B falling (conditional):

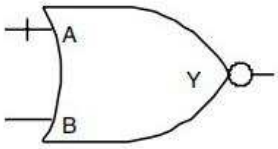
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1H7R	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00003	0.00003	0.00003
	(A * !Y)	-0.00000	-0.00000	-0.00000
	(A * !Y)	-0.00030	-0.00030	-0.00030

NOR2X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X1P4H7R	1.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X1P4H7R	0.00077	0.00089	0.03325

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X1P4H7R	0.00000	0.13623	0.41211

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X1P4H7R	A->Y (FR)	0.02301	0.17517	0.63922
	B->Y (FR)	0.02169	0.17592	0.65583

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X1P4H7R	A->Y (RF)	0.01137	0.08695	0.38183
	B->Y (RF)	0.01088	0.08472	0.38008

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X1P4H7R	A	0.00079	0.00086	0.00128
	A	-0.00010	-0.00010	-0.00010
	A	0.00006	0.00006	0.00006
	A	-0.00014	-0.00007	0.00034
	B	0.00064	0.00073	0.00130
	B	-0.00003	-0.00003	-0.00003
	B	0.00006	0.00006	0.00006
	B	-0.00010	0.00001	0.00056

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X1P4H7R	A	-0.00010	-0.00002	0.00046
	A	0.00010	0.00010	0.00010
	A	-0.00006	-0.00006	-0.00006
	A	0.00074	0.00088	0.00138
	B	-0.00011	-0.00001	0.00054
	B	0.00003	0.00003	0.00004
	B	-0.00006	-0.00006	-0.00005
	B	0.00057	0.00071	0.00129

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1P4H7R	(B * !Y)	-0.00012	-0.00011	-0.00010
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1P4H7R	(B * !Y)	0.00013	0.00013	0.00013
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	-0.00001	-0.00001	-0.00000
	(B * !Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1P4H7R	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	-0.00003	-0.00003	-0.00003
	(A * !Y)	0.00000	0.00001	0.00001
	(A * !Y)	0.00031	0.00032	0.00032

Passive power(pJ) for B falling (conditional):

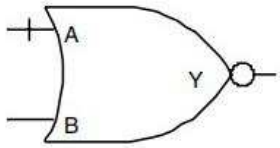
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X1P4H7R	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	0.00003	0.00003	0.00003
	(A * !Y)	-0.00001	-0.00001	-0.00000
	(A * !Y)	-0.00032	-0.00031	-0.00031

NOR2X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X2H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X2H7R	0.00129	0.00133	0.04333

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X2H7R	0.00000	0.18127	0.56067

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X2H7R	A->Y (FR)	0.02524	0.17686	0.63660
	B->Y (FR)	0.02091	0.17478	0.65361

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X2H7R	A->Y (RF)	0.01196	0.08785	0.38337
	B->Y (RF)	0.01073	0.08397	0.38038

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X2H7R	A	0.00132	0.00141	0.00198
	A	-0.00013	-0.00012	-0.00012
	A	0.00007	0.00007	0.00007
	A	-0.00018	-0.00009	0.00047
	B	0.00089	0.00104	0.00188
	B	-0.00004	-0.00004	-0.00003
	B	0.00007	0.00007	0.00007
	B	-0.00026	-0.00010	0.00071

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X2H7R	A	-0.00016	-0.00004	0.00062
	A	0.00012	0.00012	0.00013
	A	-0.00007	-0.00007	-0.00007
	A	0.00122	0.00139	0.00207
	B	-0.00014	0.00001	0.00079
	B	0.00003	0.00004	0.00005
	B	-0.00007	-0.00007	-0.00006
	B	0.00097	0.00114	0.00195

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X2H7R	(B * !Y)	-0.00020	-0.00018	-0.00014
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00044	0.00045	0.00048

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X2H7R	(B * !Y)	0.00021	0.00021	0.00021
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00044	-0.00044	-0.00043

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X2H7R	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	-0.00003	-0.00003	-0.00003
	(A * !Y)	0.00001	0.00001	0.00001
	(A * !Y)	0.00054	0.00054	0.00054

Passive power(pJ) for B falling (conditional):

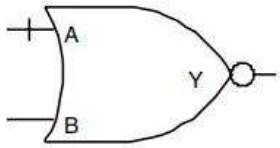
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X2H7R	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00003	0.00003	0.00003
	(A * !Y)	-0.00001	-0.00001	-0.00001
	(A * !Y)	-0.00054	-0.00054	-0.00054

NOR2X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X3H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X3H7R	0.00153	0.00155	0.06097

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X3H7R	0.00000	0.25298	0.76933

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X3H7R	A->Y (FR)	0.02131	0.17356	0.63970
	B->Y (FR)	0.01731	0.17138	0.65551

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X3H7R	A->Y (RF)	0.01047	0.08527	0.37995
	B->Y (RF)	0.00764	0.08150	0.37829

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X3H7R	A	0.00161	0.00172	0.00253
	A	-0.00018	-0.00018	-0.00018
	A	0.00010	0.00010	0.00011
	A	-0.00025	-0.00012	0.00067
	B	0.00109	0.00128	0.00245
	B	-0.00006	-0.00006	-0.00006
	B	0.00010	0.00010	0.00010
	B	-0.00029	-0.00008	0.00107

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X3H7R	A	-0.00021	-0.00005	0.00086
	A	0.00018	0.00018	0.00018
	A	-0.00010	-0.00010	-0.00010
	A	0.00147	0.00171	0.00266
	B	-0.00022	-0.00002	0.00110
	B	0.00006	0.00006	0.00006
	B	-0.00010	-0.00010	-0.00010
	B	0.00106	0.00133	0.00248

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X3H7R	(B * !Y)	-0.00027	-0.00024	-0.00019
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00050	0.00051	0.00054

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X3H7R	(B * !Y)	0.00027	0.00028	0.00028
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00050	-0.00050	-0.00049

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X3H7R	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	-0.00005	-0.00005	-0.00005
	(A * !Y)	0.00001	0.00001	0.00001
	(A * !Y)	0.00059	0.00060	0.00060

Passive power(pJ) for B falling (conditional):

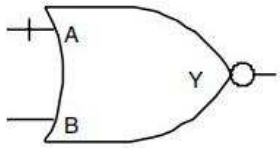
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X3H7R	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	0.00005	0.00005	0.00005
	(A * !Y)	-0.00001	-0.00001	-0.00001
	(A * !Y)	-0.00060	-0.00059	-0.00059

NOR2X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X4H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X4H7R	0.00255	0.00274	0.08636

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X4H7R	0.00000	0.36253	1.12134

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X4H7R	A->Y (FR)	0.02257	0.17416	0.63579
	B->Y (FR)	0.01875	0.17270	0.65370

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X4H7R	A->Y (RF)	0.01096	0.08617	0.38200
	B->Y (RF)	0.00824	0.08241	0.37973

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X4H7R	A	0.00262	0.00281	0.00405
	A	-0.00025	-0.00025	-0.00024
	A	0.00014	0.00014	0.00014
	A	-0.00044	-0.00024	0.00097
	B	0.00184	0.00214	0.00388
	B	-0.00008	-0.00008	-0.00007
	B	0.00014	0.00014	0.00014
	B	-0.00056	-0.00023	0.00148

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X4H7R	A	-0.00032	-0.00008	0.00129
	A	0.00024	0.00025	0.00025
	A	-0.00014	-0.00014	-0.00013
	A	0.00253	0.00285	0.00426
	B	-0.00031	-0.00000	0.00164
	B	0.00008	0.00008	0.00009
	B	-0.00014	-0.00014	-0.00014
	B	0.00196	0.00235	0.00405

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X4H7R	(B * !Y)	-0.00040	-0.00036	-0.00028
	(B * !Y)	-0.00004	-0.00004	-0.00004
	(B * !Y)	0.00001	0.00002	0.00002
	(B * !Y)	0.00089	0.00091	0.00095

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X4H7R	(B * !Y)	0.00042	0.00042	0.00042
	(B * !Y)	0.00004	0.00004	0.00004
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00088	-0.00088	-0.00088

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X4H7R	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	-0.00007	-0.00006	-0.00006
	(A * !Y)	0.00001	0.00002	0.00002
	(A * !Y)	0.00111	0.00112	0.00112

Passive power(pJ) for B falling (conditional):

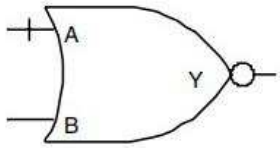
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X4H7R	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	0.00007	0.00007	0.00007
	(A * !Y)	-0.00001	-0.00001	-0.00001
	(A * !Y)	-0.00112	-0.00112	-0.00111

NOR2X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X6H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X6H7R	0.00300	0.00314	0.12127

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X6H7R	0.00000	0.50596	1.53866

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X6H7R	A->Y (FR)	0.01956	0.17158	0.63851
	B->Y (FR)	0.01611	0.17019	0.65456

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X6H7R	A->Y (RF)	0.00985	0.08397	0.37874
	B->Y (RF)	0.00341	0.08044	0.37692

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X6H7R	A	0.00321	0.00345	0.00517
	A	-0.00037	-0.00036	-0.00035
	A	0.00021	0.00021	0.00021
	A	-0.00052	-0.00027	0.00143
	B	0.00221	0.00262	0.00504
	B	-0.00013	-0.00012	-0.00009
	B	0.00020	0.00021	0.00021
	B	-0.00059	-0.00017	0.00220

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X6H7R	A	-0.00042	-0.00010	0.00177
	A	0.00035	0.00036	0.00037
	A	-0.00021	-0.00021	-0.00020
	A	0.00295	0.00346	0.00541
	B	-0.00040	0.00001	0.00231
	B	0.00009	0.00012	0.00013
	B	-0.00021	-0.00021	-0.00020
	B	0.00234	0.00278	0.00515

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X6H7R	(B * !Y)	-0.00053	-0.00047	-0.00039
	(B * !Y)	-0.00006	-0.00005	-0.00005
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00100	0.00103	0.00108

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X6H7R	(B * !Y)	0.00054	0.00055	0.00055
	(B * !Y)	0.00005	0.00005	0.00006
	(B * !Y)	-0.00002	-0.00002	-0.00001
	(B * !Y)	-0.00100	-0.00099	-0.00099

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X6H7R	(A * !Y)	0.00000	0.00000	0.00000
	(A * !Y)	-0.00010	-0.00010	-0.00009
	(A * !Y)	0.00002	0.00002	0.00002
	(A * !Y)	0.00122	0.00123	0.00124

Passive power(pJ) for B falling (conditional):

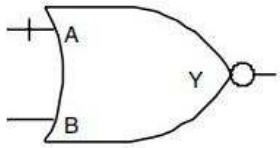
Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X6H7R	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	0.00010	0.00010	0.00010
	(A * !Y)	-0.00002	-0.00002	-0.00002
	(A * !Y)	-0.00123	-0.00123	-0.00121

NOR2X8H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR2 cell provides a logical NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
x	1	0
1	x	0

Footprint

Cell Name	Area
NOR2X8H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
NOR2X8H7R	0.00355	0.00365	0.15480

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR2X8H7R	0.00000	0.64590	1.95098

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X8H7R	A->Y (FR)	0.01822	0.17063	0.64043
	B->Y (FR)	0.01463	0.16893	0.65602

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR2X8H7R	A->Y (RF)	0.00925	0.08221	0.37376
	B->Y (RF)	-0.00070	0.07859	0.37200

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X8H7R	A	0.00387	0.00416	0.00637
	A	-0.00049	-0.00048	-0.00048
	A	0.00027	0.00027	0.00028
	A	-0.00059	-0.00028	0.00190
	B	0.00263	0.00312	0.00622
	B	-0.00017	-0.00016	-0.00014
	B	0.00027	0.00027	0.00028
	B	-0.00066	-0.00014	0.00290

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR2X8H7R	A	-0.00053	-0.00014	0.00224
	A	0.00048	0.00048	0.00049
	A	-0.00027	-0.00027	-0.00027
	A	0.00346	0.00411	0.00658
	B	-0.00053	-0.00001	0.00294
	B	0.00014	0.00016	0.00017
	B	-0.00028	-0.00027	-0.00027
	B	0.00251	0.00322	0.00626

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X8H7R	(B * !Y)	-0.00067	-0.00060	-0.00050
	(B * !Y)	-0.00007	-0.00007	-0.00007
	(B * !Y)	0.00002	0.00003	0.00003
	(B * !Y)	0.00110	0.00113	0.00120

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X8H7R	(B * !Y)	0.00069	0.00070	0.00070
	(B * !Y)	0.00007	0.00007	0.00007
	(B * !Y)	-0.00003	-0.00002	-0.00002
	(B * !Y)	-0.00110	-0.00109	-0.00108

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X8H7R	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	-0.00013	-0.00013	-0.00013
	(A * !Y)	0.00002	0.00003	0.00003
	(A * !Y)	0.00135	0.00136	0.00137

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR2X8H7R	(A * !Y)	-0.00000	0.00000	0.00000
	(A * !Y)	0.00014	0.00014	0.00014
	(A * !Y)	-0.00002	-0.00002	-0.00002
	(A * !Y)	-0.00137	-0.00136	-0.00134

NOR3BX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX0P5H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX0P5H7R	0.00080	0.00063	0.00074	0.01443

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX0P5H7R	0.00000	0.16196	0.46448

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX0P5H7R	AN->Y (RR)	0.06254	0.18650	0.49152
	B->Y (FR)	0.04849	0.19861	0.64193
	C->Y (FR)	0.04520	0.19603	0.64670

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX0P5H7R	AN->Y (FF)	0.03341	0.09015	0.22176
	B->Y (RF)	0.01513	0.07490	0.30448
	C->Y (RF)	0.01457	0.07275	0.30245

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX0P5H7R	AN	0.00079	0.00091	0.00132
	AN	-0.00008	-0.00008	-0.00008
	AN	0.00004	0.00004	0.00004
	AN	0.00089	0.00101	0.00141
	B	0.00075	0.00079	0.00099
	B	-0.00006	-0.00006	-0.00006
	B	0.00005	0.00006	0.00006
	B	0.00001	0.00005	0.00024
	C	0.00065	0.00071	0.00099
	C	-0.00002	-0.00002	-0.00002
	C	0.00005	0.00006	0.00006
	C	0.00001	0.00007	0.00035

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX0P5H7R	AN	0.00079	0.00092	0.00135
	AN	0.00008	0.00008	0.00008
	AN	-0.00004	-0.00004	-0.00004
	AN	0.00066	0.00079	0.00122
	B	-0.00007	-0.00002	0.00024
	B	0.00006	0.00006	0.00006
	B	-0.00006	-0.00006	-0.00005
	B	0.00063	0.00071	0.00097
	C	-0.00007	-0.00001	0.00027
	C	0.00002	0.00002	0.00002
	C	-0.00006	-0.00006	-0.00005
	C	0.00056	0.00062	0.00091

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7R	(B * C * !Y)	-0.00002	0.00009	0.00050
	(B * C * !Y)	0.00003	0.00003	0.00003
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	0.00063	0.00075	0.00115
	(B * !C * !Y) + (!B * C * !Y)	-0.00001	0.00010	0.00050
	(B * !C * !Y) + (!B * C * !Y)	0.00003	0.00003	0.00003
	(B * !C * !Y) + (!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00064	0.00075	0.00115

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7R	(B * C * !Y)	0.00070	0.00083	0.00126
	(B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	0.00005	0.00017	0.00061
	(B * !C * !Y) + (!B * C * !Y)	0.00070	0.00083	0.00126
	(B * !C * !Y) + (!B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00005	0.00017	0.00061

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7R	(AN * C * !Y)	-0.00009	-0.00009	-0.00007
	(AN * C * !Y)	-0.00001	-0.00001	-0.00001
	(AN * C * !Y)	0.00000	0.00000	0.00000
	(AN * C * !Y)	0.00022	0.00022	0.00023
	(!AN * C * !Y)	-0.00003	-0.00003	-0.00003
	(!AN * C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * C * !Y)	0.00000	0.00000	0.00000
	(!AN * C * !Y)	0.00019	0.00020	0.00020
	(!AN * !C * !Y)	-0.00003	-0.00003	-0.00003
	(!AN * !C * !Y)	-0.00003	-0.00003	-0.00003
	(!AN * !C * !Y)	0.00000	0.00000	0.00000
	(!AN * !C * !Y)	0.00019	0.00019	0.00020

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7R	(AN * C * !Y)	0.00009	0.00009	0.00010
	(AN * C * !Y)	0.00001	0.00001	0.00001
	(AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(AN * C * !Y)	-0.00022	-0.00022	-0.00022
	(!AN * C * !Y)	0.00003	0.00003	0.00003
	(!AN * C * !Y)	0.00004	0.00004	0.00004
	(!AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !Y)	-0.00020	-0.00019	-0.00019
	(!AN * !C * !Y)	0.00003	0.00003	0.00003
	(!AN * !C * !Y)	0.00003	0.00003	0.00003
	(!AN * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * !Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7R	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00027	0.00027	0.00027
	(!AN * !B * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * !B * !Y)	0.00000	0.00000	0.00000
	(!AN * !B * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P5H7R	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00027	-0.00027	-0.00027
	(!AN * !B * !Y)	0.00000	0.00000	0.00000
	(!AN * !B * !Y)	0.00002	0.00002	0.00002
	(!AN * !B * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00027	-0.00027	-0.00027

NOR3BX0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX0P7H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX0P7H7R	0.00078	0.00068	0.00076	0.01635

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX0P7H7R	0.00000	0.17129	0.51751

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX0P7H7R	AN->Y (RR)	0.05914	0.18505	0.49409
	B->Y (FR)	0.04461	0.19552	0.64314
	C->Y (FR)	0.04009	0.19167	0.64590

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX0P7H7R	AN->Y (FF)	0.03322	0.09069	0.22376
	B->Y (RF)	0.01411	0.07317	0.30269
	C->Y (RF)	0.01327	0.07062	0.30068

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX0P7H7R	AN	0.00084	0.00096	0.00136
	AN	-0.00010	-0.00010	-0.00009
	AN	0.00005	0.00005	0.00005
	AN	0.00089	0.00101	0.00140
	B	0.00079	0.00083	0.00105
	B	-0.00007	-0.00007	-0.00007
	B	0.00006	0.00006	0.00007
	B	-0.00001	0.00004	0.00025
	C	0.00066	0.00072	0.00105
	C	-0.00002	-0.00002	-0.00000
	C	0.00006	0.00006	0.00006
	C	-0.00000	0.00006	0.00038

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX0P7H7R	AN	0.00083	0.00096	0.00139
	AN	0.00009	0.00010	0.00010
	AN	-0.00005	-0.00005	-0.00005
	AN	0.00075	0.00087	0.00130
	B	-0.00007	-0.00002	0.00027
	B	0.00007	0.00007	0.00007
	B	-0.00006	-0.00006	-0.00006
	B	0.00067	0.00075	0.00105
	C	-0.00007	-0.00001	0.00033
	C	0.00000	0.00002	0.00003
	C	-0.00006	-0.00006	-0.00006
	C	0.00058	0.00064	0.00099

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7R	(B * C * !Y)	-0.00001	0.00010	0.00049
	(B * C * !Y)	0.00003	0.00003	0.00004
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	0.00063	0.00074	0.00114
	(B * !C * !Y) + (!B * C * !Y)	-0.00000	0.00011	0.00050
	(B * !C * !Y) + (!B * C * !Y)	0.00003	0.00003	0.00004
	(B * !C * !Y) + (!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00063	0.00074	0.00114

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7R	(B * C * !Y)	0.00074	0.00086	0.00128
	(B * C * !Y)	-0.00004	-0.00003	-0.00003
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	0.00009	0.00021	0.00064
	(B * !C * !Y) + (!B * C * !Y)	0.00074	0.00086	0.00128
	(B * !C * !Y) + (!B * C * !Y)	-0.00004	-0.00003	-0.00003
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00009	0.00021	0.00064

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7R	(AN * C * !Y)	-0.00010	-0.00009	-0.00008
	(AN * C * !Y)	-0.00001	-0.00001	-0.00001
	(AN * C * !Y)	0.00000	0.00000	0.00000
	(AN * C * !Y)	0.00023	0.00023	0.00024
	(!AN * C * !Y)	-0.00003	-0.00003	-0.00003
	(!AN * C * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * C * !Y)	0.00000	0.00000	0.00000
	(!AN * C * !Y)	0.00021	0.00021	0.00021
	(!AN * !C * !Y)	-0.00003	-0.00003	-0.00003
	(!AN * !C * !Y)	-0.00003	-0.00003	-0.00003
	(!AN * !C * !Y)	0.00000	0.00000	0.00001
	(!AN * !C * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7R	(AN * C * !Y)	0.00010	0.00010	0.00010
	(AN * C * !Y)	0.00001	0.00001	0.00001
	(AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(AN * C * !Y)	-0.00023	-0.00023	-0.00023
	(!AN * C * !Y)	0.00003	0.00003	0.00003
	(!AN * C * !Y)	0.00005	0.00005	0.00005
	(!AN * C * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * C * !Y)	-0.00021	-0.00021	-0.00021
	(!AN * !C * !Y)	0.00003	0.00003	0.00003
	(!AN * !C * !Y)	0.00003	0.00003	0.00004
	(!AN * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * !Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7R	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00028	0.00028	0.00028
	(!AN * !B * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * !B * !Y)	0.00000	0.00000	0.00000
	(!AN * !B * !Y)	0.00027	0.00028	0.00028

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX0P7H7R	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00028	-0.00028	-0.00028
	(!AN * !B * !Y)	0.00000	0.00000	0.00000
	(!AN * !B * !Y)	0.00002	0.00002	0.00003
	(!AN * !B * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00028	-0.00028	-0.00027

NOR3BX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX1H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX1H7R	0.00083	0.00074	0.00088	0.01948

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX1H7R	0.00000	0.18454	0.59014

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX1H7R	AN->Y (RR)	0.05555	0.18450	0.49975
	B->Y (FR)	0.03921	0.19110	0.64440
	C->Y (FR)	0.03532	0.18753	0.64650

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX1H7R	AN->Y (FF)	0.03408	0.09361	0.23138
	B->Y (RF)	0.01290	0.07201	0.30501
	C->Y (RF)	0.01225	0.06950	0.30268

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX1H7R	AN	0.00092	0.00103	0.00142
	AN	-0.00012	-0.00012	-0.00012
	AN	0.00006	0.00006	0.00006
	AN	0.00092	0.00104	0.00142
	B	0.00084	0.00089	0.00116
	B	-0.00009	-0.00009	-0.00009
	B	0.00007	0.00007	0.00008
	B	-0.00006	-0.00001	0.00026
	C	0.00069	0.00077	0.00116
	C	-0.00003	-0.00003	-0.00002
	C	0.00007	0.00007	0.00008
	C	-0.00006	0.00002	0.00040

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX1H7R	AN	0.00091	0.00103	0.00145
	AN	0.00012	0.00012	0.00012
	AN	-0.00006	-0.00006	-0.00005
	AN	0.00086	0.00098	0.00142
	B	-0.00009	-0.00002	0.00033
	B	0.00009	0.00009	0.00012
	B	-0.00008	-0.00007	-0.00007
	B	0.00077	0.00085	0.00121
	C	-0.00009	-0.00001	0.00039
	C	0.00002	0.00003	0.00003
	C	-0.00008	-0.00007	-0.00007
	C	0.00064	0.00073	0.00115

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7R	(B * C * !Y)	0.00000	0.00011	0.00049
	(B * C * !Y)	0.00004	0.00004	0.00004
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	0.00069	0.00080	0.00118
	(B * !C * !Y) + (!B * C * !Y)	0.00001	0.00011	0.00049
	(B * !C * !Y) + (!B * C * !Y)	0.00003	0.00003	0.00003
	(B * !C * !Y) + (!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00070	0.00080	0.00118

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7R	(B * C * !Y)	0.00081	0.00093	0.00134
	(B * C * !Y)	-0.00004	-0.00004	-0.00004
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	0.00011	0.00023	0.00064
	(B * !C * !Y) + (!B * C * !Y)	0.00081	0.00093	0.00134
	(B * !C * !Y) + (!B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00011	0.00023	0.00065

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7R	(AN * C * !Y)	-0.00012	-0.00011	-0.00009
	(AN * C * !Y)	-0.00001	-0.00001	-0.00001
	(AN * C * !Y)	0.00000	0.00001	0.00001
	(AN * C * !Y)	0.00025	0.00025	0.00026
	(!AN * C * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * C * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * C * !Y)	0.00000	0.00001	0.00001
	(!AN * C * !Y)	0.00021	0.00021	0.00022
	(!AN * !C * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * !C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * !C * !Y)	0.00000	0.00001	0.00001
	(!AN * !C * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7R	(AN * C * !Y)	0.00012	0.00012	0.00012
	(AN * C * !Y)	0.00001	0.00001	0.00001
	(AN * C * !Y)	-0.00000	-0.00001	-0.00000
	(AN * C * !Y)	-0.00025	-0.00024	-0.00024
	(!AN * C * !Y)	0.00005	0.00005	0.00005
	(!AN * C * !Y)	0.00006	0.00006	0.00006
	(!AN * C * !Y)	-0.00001	-0.00000	-0.00000
	(!AN * C * !Y)	-0.00021	-0.00021	-0.00021
	(!AN * !C * !Y)	0.00005	0.00005	0.00005
	(!AN * !C * !Y)	0.00004	0.00004	0.00004
	(!AN * !C * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !C * !Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7R	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00000	0.00001	0.00001
	(B * !Y)	0.00032	0.00032	0.00032
	(!AN * !B * !Y)	-0.00001	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00003	-0.00003	-0.00002
	(!AN * !B * !Y)	0.00000	0.00001	0.00000
	(!AN * !B * !Y)	0.00032	0.00032	0.00032

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1H7R	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	-0.00000	-0.00001	-0.00000
	(B * !Y)	-0.00032	-0.00032	-0.00032
	(!AN * !B * !Y)	0.00000	0.00001	0.00001
	(!AN * !B * !Y)	0.00002	0.00003	0.00003
	(!AN * !B * !Y)	-0.00000	-0.00001	-0.00000
	(!AN * !B * !Y)	-0.00032	-0.00032	-0.00032

NOR3BX1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX1P4H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX1P4H7R	0.00079	0.00080	0.00090	0.02221

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX1P4H7R	0.00000	0.19731	0.66214

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX1P4H7R	AN->Y (RR)	0.05244	0.18182	0.49849
	B->Y (FR)	0.03722	0.18960	0.64532
	C->Y (FR)	0.03237	0.18505	0.64637

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX1P4H7R	AN->Y (FF)	0.03244	0.09166	0.22863
	B->Y (RF)	0.01235	0.07087	0.30377
	C->Y (RF)	0.01149	0.06809	0.30125

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX1P4H7R	AN	0.00103	0.00114	0.00153
	AN	-0.00014	-0.00014	-0.00014
	AN	0.00007	0.00007	0.00007
	AN	0.00091	0.00103	0.00141
	B	0.00093	0.00098	0.00129
	B	-0.00010	-0.00010	-0.00009
	B	0.00009	0.00009	0.00009
	B	-0.00005	0.00001	0.00031
	C	0.00074	0.00083	0.00128
	C	-0.00004	-0.00003	-0.00003
	C	0.00008	0.00009	0.00009
	C	-0.00006	0.00004	0.00048

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX1P4H7R	AN	0.00087	0.00099	0.00142
	AN	0.00014	0.00014	0.00014
	AN	-0.00007	-0.00007	-0.00007
	AN	0.00093	0.00105	0.00148
	B	-0.00010	-0.00002	0.00037
	B	0.00009	0.00010	0.00010
	B	-0.00009	-0.00009	-0.00008
	B	0.00083	0.00093	0.00133
	C	-0.00010	-0.00001	0.00046
	C	0.00003	0.00003	0.00004
	C	-0.00009	-0.00009	-0.00008
	C	0.00069	0.00078	0.00126

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7R	(B * C * !Y)	0.00002	0.00013	0.00051
	(B * C * !Y)	0.00004	0.00004	0.00004
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	0.00067	0.00078	0.00116
	(B * !C * !Y) + (!B * C * !Y)	0.00003	0.00014	0.00052
	(B * !C * !Y) + (!B * C * !Y)	0.00004	0.00004	0.00004
	(B * !C * !Y) + (!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00067	0.00078	0.00116

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7R	(B * C * !Y)	0.00077	0.00088	0.00130
	(B * C * !Y)	-0.00004	-0.00004	-0.00004
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	0.00011	0.00023	0.00065
	(B * !C * !Y) + (!B * C * !Y)	0.00077	0.00088	0.00130
	(B * !C * !Y) + (!B * C * !Y)	-0.00004	-0.00004	-0.00004
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00011	0.00023	0.00065

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7R	(AN * C * !Y)	-0.00014	-0.00012	-0.00010
	(AN * C * !Y)	-0.00002	-0.00001	-0.00001
	(AN * C * !Y)	0.00001	0.00001	0.00001
	(AN * C * !Y)	0.00025	0.00026	0.00027
	(!AN * C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * C * !Y)	-0.00007	-0.00007	-0.00007
	(!AN * C * !Y)	0.00000	0.00001	0.00001
	(!AN * C * !Y)	0.00024	0.00024	0.00024
	(!AN * !C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * !C * !Y)	-0.00005	-0.00005	-0.00005
	(!AN * !C * !Y)	0.00000	0.00001	0.00001
	(!AN * !C * !Y)	0.00023	0.00023	0.00024

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7R	(AN * C * !Y)	0.00014	0.00014	0.00014
	(AN * C * !Y)	0.00001	0.00001	0.00002
	(AN * C * !Y)	-0.00001	-0.00001	-0.00000
	(AN * C * !Y)	-0.00026	-0.00025	-0.00025
	(!AN * C * !Y)	0.00004	0.00004	0.00004
	(!AN * C * !Y)	0.00007	0.00007	0.00007
	(!AN * C * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * C * !Y)	-0.00023	-0.00023	-0.00023
	(!AN * !C * !Y)	0.00004	0.00004	0.00004
	(!AN * !C * !Y)	0.00005	0.00005	0.00005
	(!AN * !C * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * !C * !Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7R	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00000	0.00001	0.00001
	(B * !Y)	0.00032	0.00032	0.00033
	(!AN * !B * !Y)	-0.00000	-0.00000	-0.00000
	(!AN * !B * !Y)	-0.00003	-0.00003	-0.00002
	(!AN * !B * !Y)	0.00000	0.00001	0.00001
	(!AN * !B * !Y)	0.00032	0.00033	0.00033

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX1P4H7R	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	-0.00001	-0.00001	-0.00000
	(B * !Y)	-0.00033	-0.00032	-0.00032
	(!AN * !B * !Y)	0.00000	0.00001	0.00001
	(!AN * !B * !Y)	0.00002	0.00003	0.00003
	(!AN * !B * !Y)	-0.00001	-0.00001	-0.00000
	(!AN * !B * !Y)	-0.00033	-0.00032	-0.00032

NOR3BX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX2H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX2H7R	0.00081	0.00112	0.00136	0.02584

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX2H7R	0.00000	0.23028	0.88453

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX2H7R	AN->Y (RR)	0.06157	0.19472	0.51772
	B->Y (FR)	0.04199	0.19545	0.65097
	C->Y (FR)	0.03780	0.19153	0.65265

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX2H7R	AN->Y (FF)	0.03825	0.09837	0.23567
	B->Y (RF)	0.01244	0.06624	0.28399
	C->Y (RF)	0.01189	0.06384	0.28190

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX2H7R	AN	0.00149	0.00161	0.00196
	AN	-0.00018	-0.00017	-0.00017
	AN	0.00009	0.00010	0.00010
	AN	0.00114	0.00126	0.00161
	B	0.00134	0.00142	0.00180
	B	-0.00013	-0.00012	-0.00008
	B	0.00011	0.00011	0.00011
	B	-0.00004	0.00004	0.00041
	C	0.00112	0.00125	0.00181
	C	-0.00004	-0.00004	-0.00003
	C	0.00011	0.00011	0.00011
	C	-0.00006	0.00006	0.00062

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX2H7R	AN	0.00116	0.00127	0.00167
	AN	0.00017	0.00017	0.00018
	AN	-0.00009	-0.00009	-0.00009
	AN	0.00144	0.00156	0.00195
	B	-0.00012	-0.00003	0.00046
	B	0.00008	0.00012	0.00015
	B	-0.00011	-0.00011	-0.00010
	B	0.00120	0.00131	0.00181
	C	-0.00013	-0.00002	0.00055
	C	0.00003	0.00004	0.00005
	C	-0.00011	-0.00011	-0.00010
	C	0.00105	0.00115	0.00174

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7R	(B * C * !Y)	0.00005	0.00014	0.00049
	(B * C * !Y)	0.00004	0.00004	0.00004
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	0.00073	0.00082	0.00117
	(B * !C * !Y) + (!B * C * !Y)	0.00006	0.00015	0.00050
	(B * !C * !Y) + (!B * C * !Y)	0.00004	0.00004	0.00004
	(B * !C * !Y) + (!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00073	0.00082	0.00117

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7R	(B * C * !Y)	0.00098	0.00108	0.00146
	(B * C * !Y)	-0.00004	-0.00004	-0.00004
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	0.00029	0.00040	0.00078
	(B * !C * !Y) + (!B * C * !Y)	0.00098	0.00109	0.00146
	(B * !C * !Y) + (!B * C * !Y)	-0.00004	-0.00004	-0.00004
	(B * !C * !Y) + (!B * C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y) + (!B * C * !Y)	0.00029	0.00040	0.00078

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7R	(AN * C * !Y)	-0.00017	-0.00015	-0.00012
	(AN * C * !Y)	-0.00002	-0.00002	-0.00002
	(AN * C * !Y)	0.00001	0.00001	0.00001
	(AN * C * !Y)	0.00038	0.00039	0.00041
	(!AN * C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * C * !Y)	-0.00008	-0.00008	-0.00008
	(!AN * C * !Y)	0.00001	0.00001	0.00001
	(!AN * C * !Y)	0.00036	0.00036	0.00037
	(!AN * !C * !Y)	-0.00004	-0.00004	-0.00004
	(!AN * !C * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * !C * !Y)	0.00001	0.00001	0.00001
	(!AN * !C * !Y)	0.00035	0.00036	0.00036

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7R	(AN * C * !Y)	0.00017	0.00017	0.00018
	(AN * C * !Y)	0.00002	0.00002	0.00002
	(AN * C * !Y)	-0.00001	-0.00001	-0.00001
	(AN * C * !Y)	-0.00038	-0.00038	-0.00038
	(!AN * C * !Y)	0.00004	0.00004	0.00004
	(!AN * C * !Y)	0.00008	0.00008	0.00008
	(!AN * C * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !Y)	-0.00036	-0.00036	-0.00035
	(!AN * !C * !Y)	0.00004	0.00004	0.00004
	(!AN * !C * !Y)	0.00006	0.00006	0.00006
	(!AN * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !Y)	-0.00036	-0.00036	-0.00035

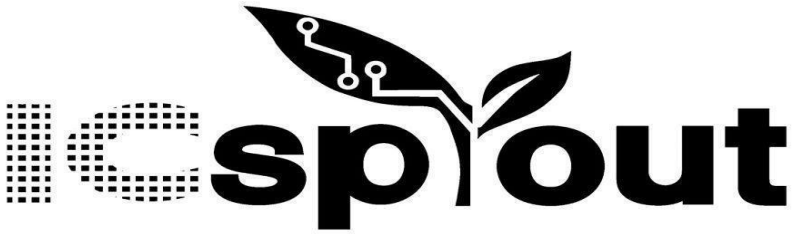
Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7R	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00004	-0.00003	-0.00004
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00052	0.00052	0.00052
	(!AN * !B * !Y)	-0.00000	-0.00000	0.00000
	(!AN * !B * !Y)	-0.00004	-0.00003	-0.00003
	(!AN * !B * !Y)	0.00001	0.00001	0.00001
	(!AN * !B * !Y)	0.00052	0.00052	0.00052

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX2H7R	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00004	0.00004	0.00004
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00052	-0.00052	-0.00051
	(!AN * !B * !Y)	0.00000	0.00001	0.00001
	(!AN * !B * !Y)	0.00004	0.00004	0.00005
	(!AN * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !B * !Y)	-0.00052	-0.00052	-0.00051

NOR3BX3H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX3H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX3H7R	0.00093	0.00154	0.00158	0.04034

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX3H7R	0.00000	0.31730	1.21587

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX3H7R	AN->Y (RR)	0.05532	0.19068	0.51969
	B->Y (FR)	0.03581	0.18865	0.64743
	C->Y (FR)	0.02650	0.17970	0.64572

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX3H7R	AN->Y (FF)	0.03535	0.09857	0.24194
	B->Y (RF)	0.01150	0.06932	0.30135
	C->Y (RF)	0.00959	0.06506	0.29775

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX3H7R	AN	0.00229	0.00244	0.00290
	AN	-0.00027	-0.00026	-0.00025
	AN	0.00014	0.00014	0.00014
	AN	0.00158	0.00173	0.00218
	B	0.00193	0.00203	0.00259
	B	-0.00020	-0.00018	-0.00014
	B	0.00016	0.00016	0.00016
	B	0.00003	0.00013	0.00069
	C	0.00133	0.00151	0.00243
	C	-0.00006	-0.00006	-0.00005
	C	0.00016	0.00016	0.00016
	C	-0.00011	0.00008	0.00098

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX3H7R	AN	0.00143	0.00158	0.00209
	AN	0.00025	0.00026	0.00027
	AN	-0.00014	-0.00014	-0.00014
	AN	0.00200	0.00216	0.00266
	B	-0.00022	-0.00007	0.00066
	B	0.00014	0.00018	0.00021
	B	-0.00016	-0.00016	-0.00016
	B	0.00158	0.00175	0.00251
	C	-0.00018	-0.00000	0.00092
	C	0.00005	0.00006	0.00008
	C	-0.00016	-0.00016	-0.00015
	C	0.00125	0.00142	0.00236

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7R	(B * C * !Y)	0.00013	0.00025	0.00070
	(B * C * !Y)	0.00007	0.00007	0.00008
	(B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * C * !Y)	0.00093	0.00105	0.00151
	(B * !C * !Y) + (!B * C * !Y)	0.00015	0.00027	0.00072
	(B * !C * !Y) + (!B * C * !Y)	0.00006	0.00006	0.00007
	(B * !C * !Y) + (!B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !Y) + (!B * C * !Y)	0.00094	0.00106	0.00151

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7R	(B * C * !Y)	0.00116	0.00129	0.00176
	(B * C * !Y)	-0.00008	-0.00007	-0.00007
	(B * C * !Y)	0.00003	0.00003	0.00003
	(B * C * !Y)	0.00034	0.00047	0.00096
	(B * !C * !Y) + (!B * C * !Y)	0.00116	0.00129	0.00176
	(B * !C * !Y) + (!B * C * !Y)	-0.00007	-0.00006	-0.00006
	(B * !C * !Y) + (!B * C * !Y)	0.00003	0.00003	0.00003
	(B * !C * !Y) + (!B * C * !Y)	0.00034	0.00047	0.00096

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7R	(AN * C * !Y)	-0.00034	-0.00030	-0.00025
	(AN * C * !Y)	-0.00003	-0.00003	-0.00002
	(AN * C * !Y)	0.00001	0.00001	0.00002
	(AN * C * !Y)	0.00044	0.00045	0.00048
	(!AN * C * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * C * !Y)	-0.00012	-0.00012	-0.00011
	(!AN * C * !Y)	0.00001	0.00001	0.00001
	(!AN * C * !Y)	0.00047	0.00047	0.00047
	(!AN * !C * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * !C * !Y)	-0.00008	-0.00008	-0.00008
	(!AN * !C * !Y)	0.00001	0.00001	0.00001
	(!AN * !C * !Y)	0.00046	0.00046	0.00047

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7R	(AN * C * !Y)	0.00034	0.00034	0.00034
	(AN * C * !Y)	0.00002	0.00003	0.00003
	(AN * C * !Y)	-0.00001	-0.00001	-0.00000
	(AN * C * !Y)	-0.00044	-0.00043	-0.00043
	(!AN * C * !Y)	0.00006	0.00006	0.00006
	(!AN * C * !Y)	0.00011	0.00012	0.00012
	(!AN * C * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !Y)	-0.00047	-0.00047	-0.00046
	(!AN * !C * !Y)	0.00006	0.00006	0.00006
	(!AN * !C * !Y)	0.00009	0.00009	0.00009
	(!AN * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !Y)	-0.00046	-0.00046	-0.00045

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7R	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00005	-0.00005	-0.00005
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00059	0.00060	0.00060
	(!AN * !B * !Y)	-0.00000	-0.00000	0.00000
	(!AN * !B * !Y)	-0.00006	-0.00005	-0.00005
	(!AN * !B * !Y)	0.00001	0.00001	0.00001
	(!AN * !B * !Y)	0.00059	0.00060	0.00060

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX3H7R	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00005	0.00005	0.00005
	(B * !Y)	-0.00001	-0.00001	-0.00000
	(B * !Y)	-0.00060	-0.00060	-0.00059
	(!AN * !B * !Y)	0.00000	0.00001	0.00001
	(!AN * !B * !Y)	0.00005	0.00005	0.00007
	(!AN * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !B * !Y)	-0.00059	-0.00059	-0.00059

NOR3BX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX4H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX4H7R	0.00093	0.00218	0.00230	0.05417

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX4H7R	0.00000	0.40705	1.66281

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX4H7R	AN->Y (RR)	0.05660	0.19357	0.52547
	B->Y (FR)	0.03606	0.18853	0.64591
	C->Y (FR)	0.02822	0.18137	0.64634

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX4H7R	AN->Y (FF)	0.03791	0.10349	0.25180
	B->Y (RF)	0.01165	0.06882	0.29950
	C->Y (RF)	0.00961	0.06503	0.29635

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX4H7R	AN	0.00327	0.00345	0.00394
	AN	-0.00036	-0.00036	-0.00035
	AN	0.00019	0.00019	0.00019
	AN	0.00196	0.00213	0.00262
	B	0.00274	0.00289	0.00370
	B	-0.00027	-0.00024	-0.00019
	B	0.00021	0.00022	0.00022
	B	-0.00000	0.00014	0.00094
	C	0.00203	0.00227	0.00353
	C	-0.00008	-0.00008	-0.00007
	C	0.00021	0.00021	0.00022
	C	-0.00011	0.00015	0.00139

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX4H7R	AN	0.00180	0.00196	0.00254
	AN	0.00035	0.00036	0.00036
	AN	-0.00019	-0.00019	-0.00019
	AN	0.00294	0.00311	0.00367
	B	-0.00031	-0.00011	0.00091
	B	0.00019	0.00024	0.00030
	B	-0.00022	-0.00021	-0.00021
	B	0.00228	0.00254	0.00359
	C	-0.00026	-0.00002	0.00123
	C	0.00007	0.00008	0.00010
	C	-0.00022	-0.00021	-0.00020
	C	0.00187	0.00209	0.00338

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7R	(B * C * !Y)	0.00023	0.00035	0.00084
	(B * C * !Y)	0.00008	0.00009	0.00009
	(B * C * !Y)	-0.00004	-0.00004	-0.00004
	(B * C * !Y)	0.00105	0.00117	0.00166
	(B * !C * !Y) + (!B * C * !Y)	0.00025	0.00038	0.00087
	(B * !C * !Y) + (!B * C * !Y)	0.00007	0.00008	0.00008
	(B * !C * !Y) + (!B * C * !Y)	-0.00004	-0.00004	-0.00004
	(B * !C * !Y) + (!B * C * !Y)	0.00105	0.00118	0.00167

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7R	(B * C * !Y)	0.00142	0.00156	0.00206
	(B * C * !Y)	-0.00009	-0.00009	-0.00008
	(B * C * !Y)	0.00004	0.00004	0.00004
	(B * C * !Y)	0.00058	0.00072	0.00124
	(B * !C * !Y) + (!B * C * !Y)	0.00143	0.00156	0.00206
	(B * !C * !Y) + (!B * C * !Y)	-0.00008	-0.00008	-0.00007
	(B * !C * !Y) + (!B * C * !Y)	0.00004	0.00004	0.00004
	(B * !C * !Y) + (!B * C * !Y)	0.00058	0.00072	0.00124

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7R	(AN * C * !Y)	-0.00046	-0.00042	-0.00034
	(AN * C * !Y)	-0.00004	-0.00004	-0.00003
	(AN * C * !Y)	0.00001	0.00001	0.00002
	(AN * C * !Y)	0.00065	0.00068	0.00073
	(!AN * C * !Y)	-0.00007	-0.00006	-0.00006
	(!AN * C * !Y)	-0.00016	-0.00016	-0.00016
	(!AN * C * !Y)	0.00001	0.00001	0.00001
	(!AN * C * !Y)	0.00071	0.00072	0.00072
	(!AN * !C * !Y)	-0.00006	-0.00006	-0.00006
	(!AN * !C * !Y)	-0.00012	-0.00012	-0.00011
	(!AN * !C * !Y)	0.00001	0.00001	0.00002
	(!AN * !C * !Y)	0.00070	0.00071	0.00071

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7R	(AN * C * !Y)	0.00047	0.00047	0.00047
	(AN * C * !Y)	0.00003	0.00004	0.00004
	(AN * C * !Y)	-0.00001	-0.00001	-0.00000
	(AN * C * !Y)	-0.00066	-0.00065	-0.00065
	(!AN * C * !Y)	0.00006	0.00006	0.00007
	(!AN * C * !Y)	0.00016	0.00016	0.00016
	(!AN * C * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * C * !Y)	-0.00071	-0.00071	-0.00070
	(!AN * !C * !Y)	0.00006	0.00006	0.00006
	(!AN * !C * !Y)	0.00012	0.00012	0.00012
	(!AN * !C * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !C * !Y)	-0.00071	-0.00070	-0.00069

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7R	(B * !Y)	-0.00002	-0.00002	-0.00001
	(B * !Y)	-0.00007	-0.00007	-0.00007
	(B * !Y)	0.00001	0.00001	0.00002
	(B * !Y)	0.00090	0.00090	0.00090
	(!AN * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !B * !Y)	-0.00007	-0.00007	-0.00005
	(!AN * !B * !Y)	0.00001	0.00001	0.00001
	(!AN * !B * !Y)	0.00089	0.00090	0.00090

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX4H7R	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00007	0.00007	0.00007
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00090	-0.00089	-0.00088
	(!AN * !B * !Y)	0.00001	0.00002	0.00002
	(!AN * !B * !Y)	0.00007	0.00008	0.00010
	(!AN * !B * !Y)	-0.00001	-0.00001	-0.00001
	(!AN * !B * !Y)	-0.00090	-0.00089	-0.00089

NOR3BX6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR3B, In: AN, B, C, Out: Y

Truth Table

INPUT			OUTPUT
AN	B	C	Y
0	x	x	0
1	0	0	1
1	x	1	0
1	1	x	0

Footprint

Cell Name	Area
NOR3BX6H7R	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	AN	B	C	Y
NOR3BX6H7R	0.00107	0.00274	0.00279	0.07682

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3BX6H7R	0.00000	0.53900	2.27975

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX6H7R	AN->Y (RR)	0.05256	0.19101	0.52656
	B->Y (FR)	0.03176	0.18515	0.64787
	C->Y (FR)	0.02420	0.17789	0.64748

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3BX6H7R	AN->Y (FF)	0.03691	0.10301	0.25220
	B->Y (RF)	0.01061	0.06668	0.29648
	C->Y (RF)	0.00404	0.06287	0.29347

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX6H7R	AN	0.00419	0.00440	0.00499
	AN	-0.00059	-0.00054	-0.00049
	AN	0.00029	0.00029	0.00029
	AN	0.00233	0.00254	0.00310
	B	0.00347	0.00365	0.00482
	B	-0.00040	-0.00036	-0.00033
	B	0.00031	0.00032	0.00032
	B	-0.00005	0.00014	0.00129
	C	0.00255	0.00287	0.00466
	C	-0.00012	-0.00012	-0.00010
	C	0.00031	0.00032	0.00032
	C	-0.00010	0.00025	0.00201

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3BX6H7R	AN	0.00214	0.00234	0.00303
	AN	0.00049	0.00054	0.00059
	AN	-0.00029	-0.00029	-0.00029
	AN	0.00377	0.00396	0.00465
	B	-0.00041	-0.00011	0.00132
	B	0.00033	0.00036	0.00044
	B	-0.00032	-0.00032	-0.00031
	B	0.00297	0.00327	0.00473
	C	-0.00036	-0.00002	0.00176
	C	0.00010	0.00012	0.00013
	C	-0.00032	-0.00032	-0.00030
	C	0.00227	0.00258	0.00441

Passive power(pJ) for AN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7R	(B * C * !Y)	0.00033	0.00048	0.00104
	(B * C * !Y)	0.00011	0.00012	0.00012
	(B * C * !Y)	-0.00005	-0.00004	-0.00001
	(B * C * !Y)	0.00130	0.00145	0.00201
	(B * !C * !Y) + (!B * C * !Y)	0.00037	0.00051	0.00107
	(B * !C * !Y) + (!B * C * !Y)	0.00010	0.00010	0.00010
	(B * !C * !Y) + (!B * C * !Y)	-0.00005	-0.00005	-0.00005
	(B * !C * !Y) + (!B * C * !Y)	0.00131	0.00146	0.00202

Passive power(pJ) for AN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7R	(B * C * !Y)	0.00166	0.00181	0.00238
	(B * C * !Y)	-0.00012	-0.00012	-0.00011
	(B * C * !Y)	0.00001	0.00004	0.00005
	(B * C * !Y)	0.00066	0.00083	0.00141
	(B * !C * !Y) + (!B * C * !Y)	0.00166	0.00181	0.00239
	(B * !C * !Y) + (!B * C * !Y)	-0.00010	-0.00010	-0.00010
	(B * !C * !Y) + (!B * C * !Y)	0.00005	0.00005	0.00005
	(B * !C * !Y) + (!B * C * !Y)	0.00066	0.00082	0.00141

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7R	(AN * C * !Y)	-0.00060	-0.00053	-0.00044
	(AN * C * !Y)	-0.00006	-0.00006	-0.00005
	(AN * C * !Y)	0.00002	0.00002	0.00002
	(AN * C * !Y)	0.00076	0.00079	0.00085
	(!AN * C * !Y)	-0.00008	-0.00008	-0.00008
	(!AN * C * !Y)	-0.00024	-0.00024	-0.00023
	(!AN * C * !Y)	0.00002	0.00002	0.00002
	(!AN * C * !Y)	0.00081	0.00082	0.00083
	(!AN * !C * !Y)	-0.00007	-0.00007	-0.00007
	(!AN * !C * !Y)	-0.00017	-0.00017	-0.00017
	(!AN * !C * !Y)	0.00001	0.00002	0.00002
	(!AN * !C * !Y)	0.00079	0.00080	0.00081

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7R	(AN * C * !Y)	0.00061	0.00061	0.00061
	(AN * C * !Y)	0.00005	0.00006	0.00006
	(AN * C * !Y)	-0.00002	-0.00002	-0.00001
	(AN * C * !Y)	-0.00076	-0.00075	-0.00075
	(!AN * C * !Y)	0.00008	0.00008	0.00008
	(!AN * C * !Y)	0.00023	0.00024	0.00024
	(!AN * C * !Y)	-0.00002	-0.00002	-0.00002
	(!AN * C * !Y)	-0.00080	-0.00080	-0.00078
	(!AN * !C * !Y)	0.00007	0.00007	0.00007
	(!AN * !C * !Y)	0.00017	0.00018	0.00018
	(!AN * !C * !Y)	-0.00002	-0.00002	-0.00001
	(!AN * !C * !Y)	-0.00080	-0.00080	-0.00079

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7R	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	-0.00011	-0.00011	-0.00011
	(B * !Y)	0.00002	0.00002	0.00003
	(B * !Y)	0.00099	0.00100	0.00101
	(!AN * !B * !Y)	-0.00002	-0.00001	-0.00001
	(!AN * !B * !Y)	-0.00011	-0.00010	-0.00008
	(!AN * !B * !Y)	0.00002	0.00002	0.00002
	(!AN * !B * !Y)	0.00100	0.00101	0.00101

Passive power(pJ) for C falling (conditional):

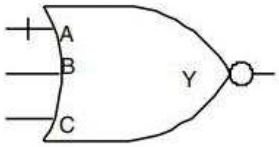
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3BX6H7R	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00011	0.00012	0.00012
	(B * !Y)	-0.00003	-0.00002	-0.00002
	(B * !Y)	-0.00101	-0.00100	-0.00098
	(!AN * !B * !Y)	0.00003	0.00003	0.00005
	(!AN * !B * !Y)	0.00008	0.00011	0.00011
	(!AN * !B * !Y)	-0.00002	-0.00002	-0.00001
	(!AN * !B * !Y)	-0.00101	-0.00100	-0.00099

NOR3X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X0P5H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X0P5H7R	0.00062	0.00066	0.00076	0.01442

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X0P5H7R	0.00000	0.06981	0.42050

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X0P5H7R	A->Y (FR)	0.04968	0.19222	0.60257
	B->Y (FR)	0.04841	0.19854	0.64185
	C->Y (FR)	0.04524	0.19612	0.64671

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X0P5H7R	A->Y (RF)	0.01547	0.07686	0.30614
	B->Y (RF)	0.01515	0.07490	0.30413
	C->Y (RF)	0.01462	0.07280	0.30222

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X0P5H7R	A	0.00086	0.00090	0.00108
	A	-0.00010	-0.00010	-0.00010
	A	0.00005	0.00006	0.00006
	A	-0.00007	-0.00004	0.00014
	B	0.00075	0.00079	0.00098
	B	-0.00006	-0.00006	-0.00006
	B	0.00005	0.00006	0.00006
	B	-0.00002	0.00003	0.00022
	C	0.00065	0.00071	0.00099
	C	-0.00002	-0.00002	-0.00002
	C	0.00005	0.00006	0.00006
	C	-0.00003	0.00003	0.00030

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X0P5H7R	A	-0.00006	-0.00002	0.00025
	A	0.00010	0.00010	0.00010
	A	-0.00006	-0.00006	-0.00005
	A	0.00080	0.00088	0.00115
	B	-0.00006	-0.00002	0.00024
	B	0.00006	0.00006	0.00006
	B	-0.00006	-0.00006	-0.00005
	B	0.00066	0.00073	0.00099
	C	-0.00007	-0.00001	0.00027
	C	0.00002	0.00002	0.00002
	C	-0.00006	-0.00006	-0.00005
	C	0.00060	0.00066	0.00096

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7R	(B * C * !Y)	-0.00008	-0.00007	-0.00006
	(B * C * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !Y)	0.00000	0.00000	0.00000
	(B * C * !Y)	0.00024	0.00024	0.00024
	(B * !C * !Y)	-0.00008	-0.00007	-0.00006
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	0.00024	0.00024	0.00024
	(!B * C * !Y)	-0.00008	-0.00007	-0.00006
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7R	(B * C * !Y)	0.00008	0.00008	0.00008
	(B * C * !Y)	0.00001	0.00001	0.00001
	(B * C * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !Y)	-0.00024	-0.00024	-0.00024
	(B * !C * !Y)	0.00008	0.00008	0.00008
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	-0.00024	-0.00024	-0.00024
	(!B * C * !Y)	0.00008	0.00008	0.00008
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	-0.00024	-0.00024	-0.00024

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7R	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00004	-0.00004	-0.00004
	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00020	0.00020	0.00020
	(A * !C * !Y)	-0.00000	-0.00000	0.00000
	(A * !C * !Y)	-0.00003	-0.00003	-0.00003
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00020	0.00020	0.00020
	(!A * C * !Y)	-0.00009	-0.00008	-0.00007
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	0.00019	0.00020	0.00021

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7R	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00004	0.00004	0.00004
	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00020	-0.00020	-0.00020
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00003	0.00003	0.00003
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	-0.00020	-0.00020	-0.00019
	(!A * C * !Y)	0.00009	0.00009	0.00009
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	-0.00019	-0.00019	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7R	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00027	0.00028	0.00028
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00027	0.00028	0.00028

Passive power(pJ) for C falling (conditional):

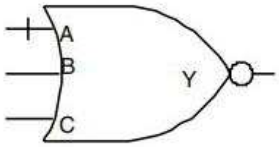
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P5H7R	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00028	-0.00027	-0.00027
	(A * !B * !Y)	-0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00002	0.00002	0.00002
	(A * !B * !Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !Y)	-0.00028	-0.00027	-0.00027

NOR3X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X0P7H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X0P7H7R	0.00066	0.00069	0.00079	0.01635

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X0P7H7R	0.00000	0.07914	0.47353

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X0P7H7R	A->Y (FR)	0.04589	0.18946	0.60398
	B->Y (FR)	0.04437	0.19526	0.64282
	C->Y (FR)	0.04052	0.19207	0.64634

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X0P7H7R	A->Y (RF)	0.01434	0.07515	0.30479
	B->Y (RF)	0.01404	0.07313	0.30257
	C->Y (RF)	0.01343	0.07078	0.30093

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X0P7H7R	A	0.00092	0.00096	0.00116
	A	-0.00012	-0.00012	-0.00011
	A	0.00006	0.00006	0.00006
	A	-0.00009	-0.00005	0.00015
	B	0.00078	0.00083	0.00105
	B	-0.00007	-0.00007	-0.00007
	B	0.00006	0.00006	0.00006
	B	-0.00003	0.00002	0.00024
	C	0.00066	0.00073	0.00105
	C	-0.00002	-0.00002	0.00000
	C	0.00006	0.00006	0.00006
	C	-0.00006	0.00001	0.00033

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X0P7H7R	A	-0.00007	-0.00002	0.00028
	A	0.00011	0.00012	0.00012
	A	-0.00006	-0.00006	-0.00006
	A	0.00086	0.00094	0.00125
	B	-0.00007	-0.00002	0.00027
	B	0.00007	0.00007	0.00007
	B	-0.00006	-0.00006	-0.00006
	B	0.00071	0.00077	0.00107
	C	-0.00007	-0.00001	0.00032
	C	0.00000	0.00002	0.00003
	C	-0.00006	-0.00006	-0.00006
	C	0.00063	0.00070	0.00104

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7R	(B * C * !Y)	-0.00009	-0.00008	-0.00007
	(B * C * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !Y)	0.00000	0.00000	0.00000
	(B * C * !Y)	0.00025	0.00025	0.00025
	(B * !C * !Y)	-0.00009	-0.00008	-0.00007
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	0.00000	0.00000	0.00000
	(B * !C * !Y)	0.00025	0.00025	0.00025
	(!B * C * !Y)	-0.00009	-0.00008	-0.00007
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00000	0.00000	0.00000
	(!B * C * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7R	(B * C * !Y)	0.00009	0.00009	0.00009
	(B * C * !Y)	0.00001	0.00001	0.00001
	(B * C * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !Y)	-0.00025	-0.00025	-0.00025
	(B * !C * !Y)	0.00009	0.00009	0.00009
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !Y)	-0.00025	-0.00025	-0.00025
	(!B * C * !Y)	0.00009	0.00009	0.00009
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7R	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00005	-0.00005	-0.00005
	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00020	0.00020	0.00020
	(A * !C * !Y)	-0.00000	-0.00000	0.00000
	(A * !C * !Y)	-0.00003	-0.00003	-0.00003
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00020	0.00020	0.00020
	(!A * C * !Y)	-0.00010	-0.00009	-0.00008
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	0.00000	0.00000	0.00000
	(!A * C * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7R	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00005	0.00005	0.00005
	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00020	-0.00020	-0.00020
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00003	0.00003	0.00004
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	-0.00020	-0.00020	-0.00020
	(!A * C * !Y)	0.00010	0.00010	0.00010
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7R	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00028	0.00029	0.00029
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00028	0.00029	0.00029

Passive power(pJ) for C falling (conditional):

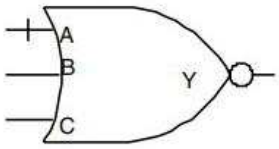
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X0P7H7R	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00029	-0.00029	-0.00028
	(A * !B * !Y)	-0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00002	0.00002	0.00002
	(A * !B * !Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !Y)	-0.00029	-0.00028	-0.00028

NOR3X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X1H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X1H7R	0.00071	0.00075	0.00087	0.01944

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X1H7R	0.00000	0.09239	0.54617

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X1H7R	A->Y (FR)	0.04186	0.18650	0.60558
	B->Y (FR)	0.04048	0.19218	0.64454
	C->Y (FR)	0.03643	0.18854	0.64695

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X1H7R	A->Y (RF)	0.01343	0.07451	0.30703
	B->Y (RF)	0.01321	0.07247	0.30508
	C->Y (RF)	0.01255	0.07000	0.30258

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X1H7R	A	0.00103	0.00107	0.00131
	A	-0.00014	-0.00014	-0.00014
	A	0.00007	0.00007	0.00008
	A	-0.00010	-0.00006	0.00018
	B	0.00087	0.00092	0.00119
	B	-0.00009	-0.00009	-0.00009
	B	0.00007	0.00007	0.00008
	B	-0.00004	0.00001	0.00027
	C	0.00073	0.00080	0.00119
	C	-0.00003	-0.00003	-0.00002
	C	0.00007	0.00007	0.00008
	C	-0.00007	0.00002	0.00039

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X1H7R	A	-0.00009	-0.00003	0.00033
	A	0.00014	0.00014	0.00014
	A	-0.00008	-0.00007	-0.00007
	A	0.00095	0.00105	0.00142
	B	-0.00008	-0.00002	0.00032
	B	0.00009	0.00009	0.00009
	B	-0.00008	-0.00007	-0.00007
	B	0.00079	0.00087	0.00122
	C	-0.00009	-0.00001	0.00039
	C	0.00002	0.00003	0.00004
	C	-0.00008	-0.00007	-0.00007
	C	0.00069	0.00077	0.00118

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7R	(B * C * !Y)	-0.00011	-0.00010	-0.00009
	(B * C * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !Y)	0.00000	0.00001	0.00000
	(B * C * !Y)	0.00026	0.00026	0.00026
	(B * !C * !Y)	-0.00011	-0.00010	-0.00009
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	0.00000	0.00001	0.00001
	(B * !C * !Y)	0.00026	0.00026	0.00026
	(!B * C * !Y)	-0.00011	-0.00009	-0.00008
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	0.00000	0.00001	0.00001
	(!B * C * !Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7R	(B * C * !Y)	0.00011	0.00011	0.00011
	(B * C * !Y)	0.00001	0.00001	0.00001
	(B * C * !Y)	-0.00000	-0.00000	-0.00000
	(B * C * !Y)	-0.00026	-0.00026	-0.00026
	(B * !C * !Y)	0.00011	0.00011	0.00011
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	-0.00000	-0.00001	-0.00000
	(B * !C * !Y)	-0.00026	-0.00026	-0.00026
	(!B * C * !Y)	0.00010	0.00011	0.00011
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	-0.00000	-0.00001	-0.00000
	(!B * C * !Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7R	(A * C * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !Y)	-0.00006	-0.00006	-0.00006
	(A * C * !Y)	0.00000	0.00001	0.00000
	(A * C * !Y)	0.00022	0.00022	0.00022
	(A * !C * !Y)	-0.00000	-0.00000	0.00000
	(A * !C * !Y)	-0.00004	-0.00004	-0.00004
	(A * !C * !Y)	0.00000	0.00001	0.00001
	(A * !C * !Y)	0.00022	0.00022	0.00022
	(!A * C * !Y)	-0.00012	-0.00011	-0.00009
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	0.00000	0.00001	0.00001
	(!A * C * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7R	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00006	0.00006	0.00006
	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00022	-0.00022	-0.00022
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00004	0.00004	0.00004
	(A * !C * !Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !Y)	-0.00022	-0.00022	-0.00022
	(!A * C * !Y)	0.00012	0.00012	0.00012
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !Y)	-0.00022	-0.00021	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7R	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00000	0.00001	0.00001
	(B * !Y)	0.00031	0.00031	0.00031
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !Y)	0.00000	0.00000	0.00001
	(A * !B * !Y)	0.00031	0.00031	0.00031

Passive power(pJ) for C falling (conditional):

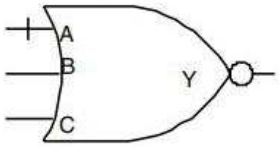
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1H7R	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	-0.00000	-0.00000	-0.00000
	(B * !Y)	-0.00031	-0.00031	-0.00030
	(A * !B * !Y)	-0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00003	0.00003	0.00003
	(A * !B * !Y)	-0.00001	-0.00000	-0.00000
	(A * !B * !Y)	-0.00031	-0.00031	-0.00030

NOR3X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X1P4H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X1P4H7R	0.00077	0.00082	0.00093	0.02219

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X1P4H7R	0.00000	0.10516	0.61816

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X1P4H7R	A->Y (FR)	0.03911	0.18449	0.60699
	B->Y (FR)	0.03741	0.18970	0.64509
	C->Y (FR)	0.03289	0.18549	0.64646

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X1P4H7R	A->Y (RF)	0.01268	0.07309	0.30508
	B->Y (RF)	0.01240	0.07094	0.30350
	C->Y (RF)	0.01163	0.06829	0.30108

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X1P4H7R	A	0.00112	0.00117	0.00144
	A	-0.00017	-0.00016	-0.00016
	A	0.00009	0.00009	0.00009
	A	-0.00012	-0.00007	0.00020
	B	0.00093	0.00099	0.00130
	B	-0.00010	-0.00010	-0.00010
	B	0.00009	0.00009	0.00009
	B	-0.00007	-0.00001	0.00029
	C	0.00076	0.00085	0.00130
	C	-0.00004	-0.00003	0.00000
	C	0.00009	0.00009	0.00009
	C	-0.00010	-0.00001	0.00043

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X1P4H7R	A	-0.00010	-0.00003	0.00038
	A	0.00016	0.00016	0.00017
	A	-0.00009	-0.00009	-0.00009
	A	0.00105	0.00115	0.00156
	B	-0.00009	-0.00002	0.00037
	B	0.00010	0.00010	0.00010
	B	-0.00009	-0.00009	-0.00008
	B	0.00085	0.00095	0.00136
	C	-0.00010	-0.00001	0.00046
	C	0.00000	0.00003	0.00004
	C	-0.00009	-0.00009	-0.00008
	C	0.00075	0.00084	0.00132

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7R	(B * C * !Y)	-0.00012	-0.00011	-0.00010
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	0.00000	0.00001	0.00001
	(B * C * !Y)	0.00027	0.00027	0.00027
	(B * !C * !Y)	-0.00012	-0.00011	-0.00010
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	0.00000	0.00001	0.00001
	(B * !C * !Y)	0.00027	0.00027	0.00027
	(!B * C * !Y)	-0.00012	-0.00011	-0.00009
	(!B * C * !Y)	-0.00002	-0.00002	-0.00001
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7R	(B * C * !Y)	0.00012	0.00012	0.00012
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	-0.00001	-0.00001	-0.00000
	(B * C * !Y)	-0.00027	-0.00027	-0.00027
	(B * !C * !Y)	0.00012	0.00013	0.00013
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !Y)	-0.00027	-0.00027	-0.00027
	(!B * C * !Y)	0.00012	0.00012	0.00012
	(!B * C * !Y)	0.00001	0.00002	0.00002
	(!B * C * !Y)	-0.00001	-0.00001	-0.00000
	(!B * C * !Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7R	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00007	-0.00006	-0.00006
	(A * C * !Y)	0.00000	0.00001	0.00001
	(A * C * !Y)	0.00023	0.00023	0.00023
	(A * !C * !Y)	-0.00000	-0.00000	0.00000
	(A * !C * !Y)	-0.00005	-0.00005	-0.00005
	(A * !C * !Y)	0.00000	0.00001	0.00001
	(A * !C * !Y)	0.00023	0.00023	0.00023
	(!A * C * !Y)	-0.00013	-0.00012	-0.00010
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	0.00000	0.00001	0.00001
	(!A * C * !Y)	0.00023	0.00023	0.00025

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7R	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00006	0.00006	0.00007
	(A * C * !Y)	-0.00001	-0.00001	-0.00000
	(A * C * !Y)	-0.00023	-0.00023	-0.00023
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00005	0.00005	0.00005
	(A * !C * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !Y)	-0.00023	-0.00023	-0.00023
	(!A * C * !Y)	0.00013	0.00013	0.00013
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7R	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00000	0.00001	0.00001
	(B * !Y)	0.00033	0.00033	0.00033
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !Y)	0.00000	0.00001	0.00001
	(A * !B * !Y)	0.00033	0.00033	0.00033

Passive power(pJ) for C falling (conditional):

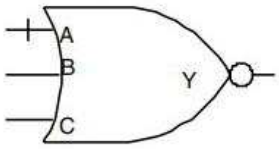
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X1P4H7R	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	0.00003	0.00003	0.00003
	(B * !Y)	-0.00001	-0.00001	-0.00000
	(B * !Y)	-0.00033	-0.00033	-0.00033
	(A * !B * !Y)	-0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00003	0.00003	0.00003
	(A * !B * !Y)	-0.00001	-0.00001	-0.00000
	(A * !B * !Y)	-0.00033	-0.00033	-0.00032

NOR3X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X2H7R	0.00113	0.00110	0.00123	0.02592

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X2H7R	0.00000	0.13813	0.84056

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X2H7R	A->Y (FR)	0.04253	0.18897	0.61255
	B->Y (FR)	0.04038	0.19383	0.65066
	C->Y (FR)	0.03544	0.18947	0.65173

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X2H7R	A->Y (RF)	0.01239	0.06788	0.28599
	B->Y (RF)	0.01213	0.06565	0.28419
	C->Y (RF)	0.01143	0.06308	0.28097

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X2H7R	A	0.00150	0.00157	0.00193
	A	-0.00020	-0.00020	-0.00019
	A	0.00011	0.00011	0.00011
	A	-0.00022	-0.00015	0.00021
	B	0.00128	0.00135	0.00175
	B	-0.00012	-0.00012	-0.00012
	B	0.00011	0.00011	0.00011
	B	-0.00013	-0.00005	0.00034
	C	0.00104	0.00116	0.00174
	C	-0.00004	-0.00004	-0.00004
	C	0.00011	0.00011	0.00011
	C	-0.00017	-0.00004	0.00053

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X2H7R	A	-0.00012	-0.00003	0.00047
	A	0.00019	0.00020	0.00020
	A	-0.00011	-0.00011	-0.00011
	A	0.00150	0.00161	0.00212
	B	-0.00013	-0.00003	0.00046
	B	0.00012	0.00012	0.00012
	B	-0.00011	-0.00011	-0.00011
	B	0.00122	0.00134	0.00184
	C	-0.00012	-0.00001	0.00057
	C	0.00004	0.00004	0.00004
	C	-0.00011	-0.00011	-0.00011
	C	0.00109	0.00119	0.00179

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7R	(B * C * !Y)	-0.00015	-0.00014	-0.00012
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	0.00001	0.00001	0.00001
	(B * C * !Y)	0.00044	0.00044	0.00045
	(B * !C * !Y)	-0.00015	-0.00014	-0.00012
	(B * !C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	0.00044	0.00044	0.00045
	(!B * C * !Y)	-0.00015	-0.00013	-0.00011
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	0.00044	0.00045	0.00045

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7R	(B * C * !Y)	0.00015	0.00015	0.00015
	(B * C * !Y)	0.00002	0.00002	0.00002
	(B * C * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !Y)	-0.00045	-0.00044	-0.00044
	(B * !C * !Y)	0.00015	0.00015	0.00015
	(B * !C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	-0.00045	-0.00044	-0.00044
	(!B * C * !Y)	0.00014	0.00014	0.00015
	(!B * C * !Y)	0.00002	0.00002	0.00002
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	-0.00044	-0.00044	-0.00044

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7R	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00008	-0.00008	-0.00008
	(A * C * !Y)	0.00001	0.00001	0.00001
	(A * C * !Y)	0.00036	0.00037	0.00037
	(A * !C * !Y)	-0.00000	-0.00000	0.00000
	(A * !C * !Y)	-0.00006	-0.00006	-0.00006
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	0.00036	0.00036	0.00036
	(!A * C * !Y)	-0.00017	-0.00015	-0.00013
	(!A * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	0.00036	0.00037	0.00038

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7R	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00008	0.00008	0.00008
	(A * C * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !Y)	-0.00036	-0.00036	-0.00036
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00006	0.00006	0.00006
	(A * !C * !Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !Y)	-0.00036	-0.00036	-0.00036
	(!A * C * !Y)	0.00017	0.00017	0.00018
	(!A * C * !Y)	0.00002	0.00002	0.00002
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	-0.00036	-0.00036	-0.00036

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7R	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00003	-0.00003	-0.00003
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00048	0.00048	0.00049
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !Y)	0.00001	0.00001	0.00001
	(A * !B * !Y)	0.00048	0.00048	0.00049

Passive power(pJ) for C falling (conditional):

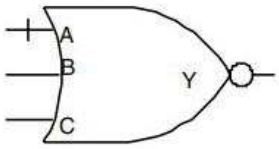
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X2H7R	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	0.00004	0.00004	0.00004
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00048	-0.00048	-0.00048
	(A * !B * !Y)	-0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00003	0.00003	0.00003
	(A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !Y)	-0.00048	-0.00048	-0.00047

NOR3X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X3H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X3H7R	0.00154	0.00154	0.00166	0.04038

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X3H7R	0.00000	0.19523	1.15399

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X3H7R	A->Y (FR)	0.03842	0.18503	0.60921
	B->Y (FR)	0.03579	0.18826	0.64595
	C->Y (FR)	0.02848	0.18157	0.64627

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X3H7R	A->Y (RF)	0.01196	0.07215	0.30439
	B->Y (RF)	0.01170	0.06948	0.30129
	C->Y (RF)	0.01067	0.06587	0.29810

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X3H7R	A	0.00238	0.00247	0.00296
	A	-0.00030	-0.00029	-0.00029
	A	0.00016	0.00016	0.00016
	A	-0.00013	-0.00005	0.00044
	B	0.00191	0.00200	0.00258
	B	-0.00019	-0.00018	-0.00018
	B	0.00016	0.00016	0.00016
	B	-0.00012	-0.00002	0.00055
	C	0.00139	0.00157	0.00246
	C	-0.00006	-0.00006	-0.00006
	C	0.00016	0.00016	0.00016
	C	-0.00024	-0.00006	0.00083

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X3H7R	A	-0.00020	-0.00007	0.00067
	A	0.00029	0.00029	0.00030
	A	-0.00016	-0.00016	-0.00016
	A	0.00210	0.00229	0.00304
	B	-0.00017	-0.00004	0.00070
	B	0.00018	0.00018	0.00019
	B	-0.00016	-0.00016	-0.00016
	B	0.00175	0.00192	0.00267
	C	-0.00014	0.00003	0.00093
	C	0.00006	0.00006	0.00007
	C	-0.00016	-0.00016	-0.00015
	C	0.00148	0.00164	0.00257

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7R	(B * C * !Y)	-0.00026	-0.00024	-0.00020
	(B * C * !Y)	-0.00003	-0.00003	-0.00003
	(B * C * !Y)	0.00001	0.00001	0.00001
	(B * C * !Y)	0.00049	0.00049	0.00049
	(B * !C * !Y)	-0.00027	-0.00024	-0.00020
	(B * !C * !Y)	-0.00003	-0.00003	-0.00003
	(B * !C * !Y)	0.00001	0.00001	0.00001
	(B * !C * !Y)	0.00049	0.00049	0.00050
	(!B * C * !Y)	-0.00026	-0.00022	-0.00017
	(!B * C * !Y)	-0.00004	-0.00003	-0.00003
	(!B * C * !Y)	0.00001	0.00001	0.00001
	(!B * C * !Y)	0.00049	0.00049	0.00050

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7R	(B * C * !Y)	0.00026	0.00026	0.00026
	(B * C * !Y)	0.00003	0.00003	0.00003
	(B * C * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !Y)	-0.00049	-0.00049	-0.00048
	(B * !C * !Y)	0.00027	0.00027	0.00027
	(B * !C * !Y)	0.00003	0.00003	0.00003
	(B * !C * !Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !Y)	-0.00049	-0.00048	-0.00048
	(!B * C * !Y)	0.00026	0.00026	0.00026
	(!B * C * !Y)	0.00003	0.00003	0.00004
	(!B * C * !Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !Y)	-0.00049	-0.00049	-0.00048

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7R	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00011	-0.00012	-0.00011
	(A * C * !Y)	0.00001	0.00001	0.00001
	(A * C * !Y)	0.00048	0.00048	0.00048
	(A * !C * !Y)	-0.00000	-0.00000	0.00000
	(A * !C * !Y)	-0.00008	-0.00008	-0.00008
	(A * !C * !Y)	0.00001	0.00001	0.00001
	(A * !C * !Y)	0.00047	0.00047	0.00048
	(!A * C * !Y)	-0.00033	-0.00030	-0.00025
	(!A * C * !Y)	-0.00003	-0.00003	-0.00002
	(!A * C * !Y)	0.00001	0.00001	0.00001
	(!A * C * !Y)	0.00042	0.00044	0.00046

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7R	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00011	0.00012	0.00011
	(A * C * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !Y)	-0.00048	-0.00048	-0.00048
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00008	0.00008	0.00008
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	-0.00048	-0.00047	-0.00047
	(!A * C * !Y)	0.00033	0.00034	0.00034
	(!A * C * !Y)	0.00002	0.00003	0.00003
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	-0.00042	-0.00042	-0.00041

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7R	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	-0.00005	-0.00005	-0.00005
	(B * !Y)	0.00001	0.00001	0.00001
	(B * !Y)	0.00064	0.00064	0.00064
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00005	-0.00005	-0.00005
	(A * !B * !Y)	0.00001	0.00001	0.00001
	(A * !B * !Y)	0.00063	0.00064	0.00064

Passive power(pJ) for C falling (conditional):

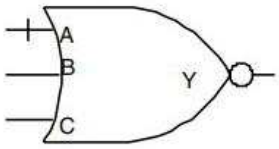
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X3H7R	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00005	0.00005	0.00005
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00064	-0.00064	-0.00063
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00005	0.00005	0.00005
	(A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !Y)	-0.00064	-0.00064	-0.00063

NOR3X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X4H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X4H7R	0.00242	0.00252	0.00265	0.05751

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X4H7R	0.00000	0.27925	1.68200

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X4H7R	A->Y (FR)	0.04054	0.18641	0.60814
	B->Y (FR)	0.03804	0.19006	0.64536
	C->Y (FR)	0.02846	0.18136	0.64588

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X4H7R	A->Y (RF)	0.01225	0.07317	0.30716
	B->Y (RF)	0.01211	0.07050	0.30409
	C->Y (RF)	0.00958	0.06605	0.30074

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X4H7R	A	0.00376	0.00390	0.00464
	A	-0.00040	-0.00040	-0.00040
	A	0.00022	0.00022	0.00022
	A	-0.00023	-0.00009	0.00064
	B	0.00312	0.00327	0.00414
	B	-0.00027	-0.00025	-0.00019
	B	0.00022	0.00022	0.00022
	B	-0.00022	-0.00006	0.00080
	C	0.00221	0.00249	0.00386
	C	-0.00009	-0.00008	-0.00005
	C	0.00022	0.00022	0.00022
	C	-0.00043	-0.00014	0.00122

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X4H7R	A	-0.00030	-0.00011	0.00101
	A	0.00040	0.00040	0.00040
	A	-0.00022	-0.00022	-0.00022
	A	0.00333	0.00364	0.00477
	B	-0.00035	-0.00012	0.00097
	B	0.00019	0.00025	0.00032
	B	-0.00022	-0.00022	-0.00022
	B	0.00283	0.00309	0.00422
	C	-0.00030	-0.00003	0.00133
	C	0.00005	0.00008	0.00009
	C	-0.00022	-0.00022	-0.00021
	C	0.00232	0.00258	0.00398

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7R	(B * C * !Y)	-0.00040	-0.00036	-0.00030
	(B * C * !Y)	-0.00005	-0.00005	-0.00005
	(B * C * !Y)	0.00001	0.00002	0.00002
	(B * C * !Y)	0.00080	0.00080	0.00080
	(B * !C * !Y)	-0.00040	-0.00036	-0.00029
	(B * !C * !Y)	-0.00004	-0.00004	-0.00004
	(B * !C * !Y)	0.00001	0.00002	0.00002
	(B * !C * !Y)	0.00080	0.00080	0.00082
	(!B * C * !Y)	-0.00038	-0.00033	-0.00025
	(!B * C * !Y)	-0.00005	-0.00005	-0.00003
	(!B * C * !Y)	0.00001	0.00001	0.00002
	(!B * C * !Y)	0.00081	0.00081	0.00083

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7R	(B * C * !Y)	0.00039	0.00040	0.00040
	(B * C * !Y)	0.00005	0.00005	0.00005
	(B * C * !Y)	-0.00001	-0.00001	-0.00001
	(B * C * !Y)	-0.00080	-0.00079	-0.00079
	(B * !C * !Y)	0.00041	0.00042	0.00042
	(B * !C * !Y)	0.00004	0.00004	0.00004
	(B * !C * !Y)	-0.00002	-0.00002	-0.00001
	(B * !C * !Y)	-0.00080	-0.00079	-0.00079
	(!B * C * !Y)	0.00038	0.00038	0.00039
	(!B * C * !Y)	0.00003	0.00005	0.00005
	(!B * C * !Y)	-0.00002	-0.00001	-0.00001
	(!B * C * !Y)	-0.00081	-0.00081	-0.00080

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7R	(A * C * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !Y)	-0.00016	-0.00016	-0.00016
	(A * C * !Y)	0.00001	0.00002	0.00002
	(A * C * !Y)	0.00083	0.00084	0.00085
	(A * !C * !Y)	-0.00000	0.00000	0.00000
	(A * !C * !Y)	-0.00012	-0.00012	-0.00012
	(A * !C * !Y)	0.00001	0.00002	0.00002
	(A * !C * !Y)	0.00083	0.00083	0.00083
	(!A * C * !Y)	-0.00054	-0.00048	-0.00039
	(!A * C * !Y)	-0.00004	-0.00004	-0.00004
	(!A * C * !Y)	0.00001	0.00001	0.00002
	(!A * C * !Y)	0.00076	0.00079	0.00084

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7R	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00016	0.00016	0.00016
	(A * C * !Y)	-0.00001	-0.00001	-0.00001
	(A * C * !Y)	-0.00084	-0.00083	-0.00082
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00012	0.00012	0.00012
	(A * !C * !Y)	-0.00001	-0.00001	-0.00001
	(A * !C * !Y)	-0.00083	-0.00083	-0.00083
	(!A * C * !Y)	0.00054	0.00054	0.00054
	(!A * C * !Y)	0.00004	0.00004	0.00004
	(!A * C * !Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !Y)	-0.00076	-0.00076	-0.00074

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7R	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	-0.00007	-0.00007	-0.00007
	(B * !Y)	0.00001	0.00002	0.00002
	(B * !Y)	0.00106	0.00106	0.00107
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00007	-0.00007	-0.00007
	(A * !B * !Y)	0.00001	0.00001	0.00002
	(A * !B * !Y)	0.00105	0.00106	0.00106

Passive power(pJ) for C falling (conditional):

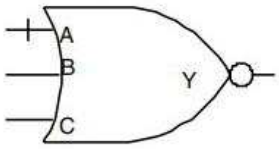
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X4H7R	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00007	0.00007	0.00008
	(B * !Y)	-0.00001	-0.00001	-0.00001
	(B * !Y)	-0.00106	-0.00106	-0.00105
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00007	0.00007	0.00007
	(A * !B * !Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !Y)	-0.00105	-0.00104	-0.00104

NOR3X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X6H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X6H7R	0.00266	0.00268	0.00280	0.07718

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X6H7R	0.00000	0.37447	2.19484

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X6H7R	A->Y (FR)	0.03317	0.18040	0.60999
	B->Y (FR)	0.03046	0.18374	0.64701
	C->Y (FR)	0.02308	0.17675	0.64654

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X6H7R	A->Y (RF)	0.01052	0.06896	0.29975
	B->Y (RF)	0.01028	0.06623	0.29679
	C->Y (RF)	0.00186	0.06247	0.29429

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X6H7R	A	0.00414	0.00431	0.00534
	A	-0.00059	-0.00058	-0.00058
	A	0.00031	0.00032	0.00032
	A	-0.00039	-0.00022	0.00080
	B	0.00333	0.00353	0.00473
	B	-0.00039	-0.00036	-0.00032
	B	0.00031	0.00032	0.00032
	B	-0.00031	-0.00012	0.00107
	C	0.00240	0.00273	0.00456
	C	-0.00013	-0.00012	-0.00010
	C	0.00031	0.00032	0.00032
	C	-0.00044	-0.00009	0.00171

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X6H7R	A	-0.00038	-0.00014	0.00132
	A	0.00058	0.00058	0.00059
	A	-0.00032	-0.00032	-0.00031
	A	0.00378	0.00411	0.00560
	B	-0.00041	-0.00014	0.00131
	B	0.00032	0.00036	0.00039
	B	-0.00032	-0.00032	-0.00031
	B	0.00308	0.00338	0.00487
	C	-0.00037	-0.00002	0.00180
	C	0.00010	0.00012	0.00014
	C	-0.00032	-0.00032	-0.00030
	C	0.00245	0.00278	0.00465

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7R	(B * C * !Y)	-0.00050	-0.00045	-0.00038
	(B * C * !Y)	-0.00007	-0.00007	-0.00007
	(B * C * !Y)	0.00002	0.00002	0.00003
	(B * C * !Y)	0.00081	0.00081	0.00082
	(B * !C * !Y)	-0.00050	-0.00045	-0.00038
	(B * !C * !Y)	-0.00006	-0.00006	-0.00006
	(B * !C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y)	0.00081	0.00082	0.00083
	(!B * C * !Y)	-0.00048	-0.00042	-0.00033
	(!B * C * !Y)	-0.00007	-0.00007	-0.00007
	(!B * C * !Y)	0.00002	0.00002	0.00002
	(!B * C * !Y)	0.00082	0.00082	0.00083

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7R	(B * C * !Y)	0.00049	0.00049	0.00050
	(B * C * !Y)	0.00007	0.00007	0.00007
	(B * C * !Y)	-0.00002	-0.00002	-0.00002
	(B * C * !Y)	-0.00081	-0.00081	-0.00080
	(B * !C * !Y)	0.00051	0.00052	0.00052
	(B * !C * !Y)	0.00006	0.00006	0.00006
	(B * !C * !Y)	-0.00002	-0.00002	-0.00001
	(B * !C * !Y)	-0.00081	-0.00081	-0.00081
	(!B * C * !Y)	0.00048	0.00048	0.00048
	(!B * C * !Y)	0.00007	0.00007	0.00007
	(!B * C * !Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !Y)	-0.00082	-0.00081	-0.00081

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7R	(A * C * !Y)	-0.00000	-0.00000	-0.00000
	(A * C * !Y)	-0.00024	-0.00024	-0.00024
	(A * C * !Y)	0.00002	0.00002	0.00002
	(A * C * !Y)	0.00077	0.00078	0.00078
	(A * !C * !Y)	-0.00000	-0.00000	0.00000
	(A * !C * !Y)	-0.00018	-0.00018	-0.00018
	(A * !C * !Y)	0.00002	0.00002	0.00002
	(A * !C * !Y)	0.00076	0.00076	0.00077
	(!A * C * !Y)	-0.00060	-0.00054	-0.00045
	(!A * C * !Y)	-0.00006	-0.00005	-0.00005
	(!A * C * !Y)	0.00002	0.00002	0.00002
	(!A * C * !Y)	0.00073	0.00075	0.00081

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7R	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00024	0.00024	0.00024
	(A * C * !Y)	-0.00002	-0.00002	-0.00001
	(A * C * !Y)	-0.00077	-0.00076	-0.00076
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00018	0.00018	0.00018
	(A * !C * !Y)	-0.00002	-0.00002	-0.00001
	(A * !C * !Y)	-0.00076	-0.00076	-0.00076
	(!A * C * !Y)	0.00061	0.00061	0.00061
	(!A * C * !Y)	0.00005	0.00005	0.00006
	(!A * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !Y)	-0.00072	-0.00072	-0.00071

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7R	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	-0.00011	-0.00011	-0.00011
	(B * !Y)	0.00002	0.00002	0.00002
	(B * !Y)	0.00103	0.00103	0.00103
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00010	-0.00010	-0.00010
	(A * !B * !Y)	0.00002	0.00002	0.00002
	(A * !B * !Y)	0.00102	0.00103	0.00103

Passive power(pJ) for C falling (conditional):

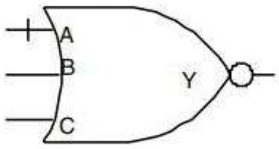
Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X6H7R	(B * !Y)	0.00000	0.00000	0.00000
	(B * !Y)	0.00011	0.00011	0.00011
	(B * !Y)	-0.00002	-0.00002	-0.00002
	(B * !Y)	-0.00103	-0.00102	-0.00101
	(A * !B * !Y)	-0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00010	0.00011	0.00011
	(A * !B * !Y)	-0.00002	-0.00002	-0.00001
	(A * !B * !Y)	-0.00103	-0.00102	-0.00099

NOR3X8H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The NOR3 cell provides a logical NOR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	x	1	0
x	1	x	0
1	x	x	0

Footprint

Cell Name	Area
NOR3X8H7R	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
NOR3X8H7R	0.00355	0.00354	0.00368	0.10266

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR3X8H7R	0.00000	0.49930	2.92645

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X8H7R	A->Y (FR)	0.03293	0.18023	0.60957
	B->Y (FR)	0.03013	0.18340	0.64759
	C->Y (FR)	0.02245	0.17620	0.64699

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR3X8H7R	A->Y (RF)	0.01040	0.06881	0.29983
	B->Y (RF)	0.01019	0.06606	0.29655
	C->Y (RF)	0.00073	0.06214	0.29365

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X8H7R	A	0.00561	0.00583	0.00722
	A	-0.00078	-0.00078	-0.00076
	A	0.00042	0.00042	0.00043
	A	-0.00046	-0.00023	0.00113
	B	0.00450	0.00475	0.00637
	B	-0.00049	-0.00048	-0.00047
	B	0.00039	0.00042	0.00043
	B	-0.00041	-0.00015	0.00144
	C	0.00321	0.00366	0.00611
	C	-0.00017	-0.00016	-0.00013
	C	0.00042	0.00042	0.00043
	C	-0.00059	-0.00012	0.00229

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR3X8H7R	A	-0.00052	-0.00018	0.00176
	A	0.00076	0.00078	0.00078
	A	-0.00042	-0.00042	-0.00041
	A	0.00503	0.00551	0.00749
	B	-0.00053	-0.00016	0.00177
	B	0.00047	0.00048	0.00049
	B	-0.00042	-0.00042	-0.00039
	B	0.00410	0.00456	0.00655
	C	-0.00047	-0.00000	0.00243
	C	0.00013	0.00016	0.00019
	C	-0.00042	-0.00042	-0.00040
	C	0.00325	0.00375	0.00625

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7R	(B * C * !Y)	-0.00067	-0.00060	-0.00051
	(B * C * !Y)	-0.00009	-0.00009	-0.00009
	(B * C * !Y)	0.00002	0.00003	0.00003
	(B * C * !Y)	0.00109	0.00109	0.00110
	(B * !C * !Y)	-0.00067	-0.00060	-0.00050
	(B * !C * !Y)	-0.00008	-0.00008	-0.00008
	(B * !C * !Y)	0.00002	0.00002	0.00002
	(B * !C * !Y)	0.00109	0.00109	0.00110
	(!B * C * !Y)	-0.00065	-0.00056	-0.00045
	(!B * C * !Y)	-0.00009	-0.00009	-0.00009
	(!B * C * !Y)	0.00002	0.00003	0.00003
	(!B * C * !Y)	0.00109	0.00110	0.00112

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7R	(B * C * !Y)	0.00066	0.00066	0.00067
	(B * C * !Y)	0.00009	0.00009	0.00009
	(B * C * !Y)	-0.00003	-0.00002	-0.00002
	(B * C * !Y)	-0.00109	-0.00108	-0.00108
	(B * !C * !Y)	0.00068	0.00069	0.00069
	(B * !C * !Y)	0.00008	0.00008	0.00008
	(B * !C * !Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !Y)	-0.00109	-0.00108	-0.00108
	(!B * C * !Y)	0.00064	0.00064	0.00065
	(!B * C * !Y)	0.00009	0.00009	0.00009
	(!B * C * !Y)	-0.00003	-0.00002	-0.00002
	(!B * C * !Y)	-0.00109	-0.00109	-0.00109

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7R	(A * C * !Y)	-0.00000	-0.00000	0.00000
	(A * C * !Y)	-0.00032	-0.00032	-0.00031
	(A * C * !Y)	0.00002	0.00003	0.00003
	(A * C * !Y)	0.00107	0.00108	0.00108
	(A * !C * !Y)	-0.00000	-0.00000	0.00000
	(A * !C * !Y)	-0.00023	-0.00023	-0.00023
	(A * !C * !Y)	0.00002	0.00002	0.00003
	(A * !C * !Y)	0.00106	0.00106	0.00106
	(!A * C * !Y)	-0.00081	-0.00073	-0.00060
	(!A * C * !Y)	-0.00007	-0.00007	-0.00007
	(!A * C * !Y)	0.00002	0.00002	0.00003
	(!A * C * !Y)	0.00099	0.00103	0.00110

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7R	(A * C * !Y)	0.00000	0.00000	0.00000
	(A * C * !Y)	0.00031	0.00032	0.00032
	(A * C * !Y)	-0.00002	-0.00002	-0.00002
	(A * C * !Y)	-0.00106	-0.00106	-0.00104
	(A * !C * !Y)	0.00000	0.00000	0.00000
	(A * !C * !Y)	0.00023	0.00024	0.00024
	(A * !C * !Y)	-0.00003	-0.00002	-0.00002
	(A * !C * !Y)	-0.00106	-0.00105	-0.00105
	(!A * C * !Y)	0.00082	0.00082	0.00083
	(!A * C * !Y)	0.00007	0.00007	0.00007
	(!A * C * !Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !Y)	-0.00099	-0.00098	-0.00097

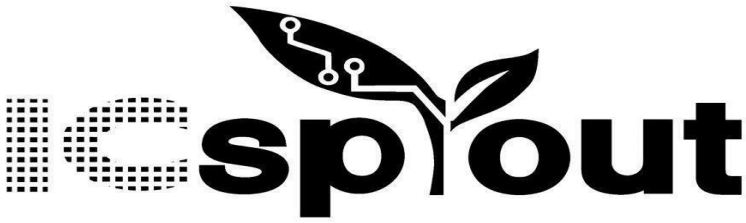
Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7R	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	-0.00014	-0.00014	-0.00014
	(B * !Y)	0.00002	0.00003	0.00003
	(B * !Y)	0.00139	0.00140	0.00140
	(A * !B * !Y)	0.00000	0.00000	0.00000
	(A * !B * !Y)	-0.00013	-0.00013	-0.00013
	(A * !B * !Y)	0.00002	0.00002	0.00002
	(A * !B * !Y)	0.00138	0.00139	0.00140

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR3X8H7R	(B * !Y)	-0.00000	0.00000	0.00000
	(B * !Y)	0.00015	0.00015	0.00015
	(B * !Y)	-0.00003	-0.00002	-0.00002
	(B * !Y)	-0.00140	-0.00139	-0.00138
	(A * !B * !Y)	-0.00000	0.00000	0.00000
	(A * !B * !Y)	0.00014	0.00014	0.00014
	(A * !B * !Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !Y)	-0.00140	-0.00138	-0.00137

NOR4BBX0P5H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX0P5H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX0P5H7R	0.00081	0.00073	0.00070	0.00072	0.01061

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX0P5H7R	0.00000	0.23420	0.64861

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX0P5H7R	A0N->Y (RR)	0.08840	0.20936	0.50519
	A1N->Y (RR)	0.09304	0.21694	0.51917
	A2->Y (FR)	0.07035	0.21741	0.64657
	A3->Y (FR)	0.06156	0.20913	0.63953

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX0P5H7R	A0N->Y (FF)	0.03572	0.08627	0.20025
	A1N->Y (FF)	0.04046	0.09377	0.21375
	A2->Y (RF)	0.01641	0.06713	0.25700
	A3->Y (RF)	0.01525	0.06437	0.25425

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7R	A0N	0.00102	0.00113	0.00153
	A0N	-0.00012	-0.00012	-0.00011
	A0N	0.00006	0.00006	0.00006
	A0N	0.00105	0.00116	0.00156
	A1N	0.00095	0.00106	0.00143
	A1N	-0.00008	-0.00008	-0.00008
	A1N	0.00005	0.00006	0.00006
	A1N	0.00103	0.00114	0.00151
	A2	0.00086	0.00090	0.00104
	A2	-0.00007	-0.00006	-0.00006
	A2	0.00007	0.00007	0.00008
	A2	0.00005	0.00009	0.00024
	A3	0.00074	0.00079	0.00102
	A3	-0.00002	-0.00002	-0.00002
	A3	0.00007	0.00007	0.00008
	A3	0.00007	0.00012	0.00035

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7R	A0N	0.00083	0.00095	0.00138
	A0N	0.00011	0.00012	0.00012
	A0N	-0.00006	-0.00006	-0.00006
	A0N	0.00075	0.00088	0.00131
	A1N	0.00105	0.00117	0.00157
	A1N	0.00008	0.00008	0.00008
	A1N	-0.00006	-0.00006	-0.00005
	A1N	0.00094	0.00105	0.00145
	A2	-0.00006	-0.00002	0.00020
	A2	0.00006	0.00006	0.00008
	A2	-0.00008	-0.00007	-0.00006
	A2	0.00072	0.00077	0.00099
	A3	-0.00005	-0.00000	0.00025
	A3	0.00002	0.00002	0.00003
	A3	-0.00007	-0.00007	-0.00007
	A3	0.00060	0.00066	0.00092

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7R	(A1N * A2 * A3 * !Y)	-0.00002	0.00009	0.00048
	(A1N * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1N * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * A3 * !Y)	0.00062	0.00073	0.00112
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00002	0.00009	0.00048
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00062	0.00073	0.00112
	(!A1N * A3 * !Y)	0.00001	0.00012	0.00051
	(!A1N * A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A3 * !Y)	0.00065	0.00076	0.00115
	(!A1N * A2 * !A3 * !Y)	0.00001	0.00012	0.00051
	(!A1N * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A2 * !A3 * !Y)	0.00065	0.00076	0.00115

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7R	(A1N * A2 * A3 * !Y)	0.00075	0.00088	0.00130
	(A1N * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1N * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * A3 * !Y)	0.00011	0.00023	0.00066
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00075	0.00088	0.00130
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00011	0.00023	0.00066
	(!A1N * A3 * !Y)	0.00072	0.00084	0.00127
	(!A1N * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A3 * !Y)	0.00008	0.00020	0.00063
	(!A1N * A2 * !A3 * !Y)	0.00072	0.00084	0.00127
	(!A1N * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A2 * !A3 * !Y)	0.00008	0.00020	0.00063

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7R	(A2 * A3 * !Y)	0.00000	0.00010	0.00047
	(A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * A3 * !Y)	0.00065	0.00075	0.00112
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00001	0.00011	0.00047
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00003	0.00003	0.00003
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00065	0.00075	0.00112

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7R	(A2 * A3 * !Y)	0.00090	0.00101	0.00141
	(A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A2 * A3 * !Y)	0.00024	0.00035	0.00076
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00090	0.00101	0.00141
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00024	0.00036	0.00076

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7R	(A0N * A1N * A3 * !Y)	-0.00008	-0.00008	-0.00006
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A1N * A3 * !Y)	0.00000	0.00000	0.00001
	(A0N * A1N * A3 * !Y)	0.00027	0.00027	0.00028
	(!A1N * A3 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1N * A3 * !Y)	-0.00005	-0.00004	-0.00004
	(!A1N * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1N * A3 * !Y)	0.00023	0.00023	0.00023
	(!A1N * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A1N * !A3 * !Y)	0.00023	0.00023	0.00023
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * A1N * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * A3 * !Y)	0.00029	0.00029	0.00029
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A3 * !Y)	0.00027	0.00027	0.00028

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7R	(A0N * A1N * A3 * !Y)	0.00009	0.00009	0.00009
	(A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00000	-0.00000
	(A0N * A1N * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1N * A3 * !Y)	0.00004	0.00005	0.00005
	(!A1N * A3 * !Y)	0.00004	0.00004	0.00005
	(!A1N * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * A3 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1N * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A1N * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !A3 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * A1N * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * A3 * !Y)	-0.00029	-0.00028	-0.00028
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00028	-0.00027	-0.00027

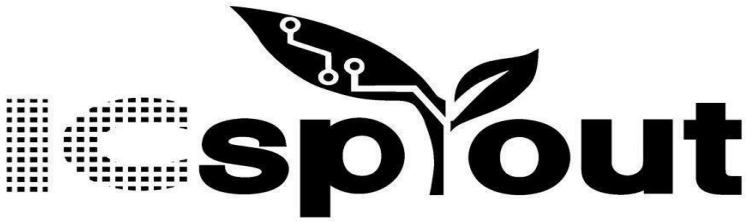
Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	0.00000	0.00000	0.00001
	(A2 * !Y)	0.00029	0.00029	0.00029
	(!A1N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A1N * !A2 * !Y)	0.00026	0.00026	0.00026
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	0.00029	0.00029	0.00029

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P5H7R	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1N * !A2 * !Y)	0.00004	0.00004	0.00004
	(!A1N * !A2 * !Y)	0.00002	0.00002	0.00002
	(!A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !A2 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	0.00002	0.00002	0.00002
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00029	-0.00029	-0.00029

NOR4BBX0P7H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX0P7H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX0P7H7R	0.00083	0.00073	0.00074	0.00076	0.01202

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX0P7H7R	0.00000	0.24097	0.71932

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX0P7H7R	A0N->Y (RR)	0.08443	0.20743	0.50779
	A1N->Y (RR)	0.08763	0.21302	0.51878
	A2->Y (FR)	0.06525	0.21341	0.64716
	A3->Y (FR)	0.05658	0.20498	0.63959

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX0P7H7R	A0N->Y (FF)	0.03558	0.08677	0.20206
	A1N->Y (FF)	0.03925	0.09269	0.21301
	A2->Y (RF)	0.01536	0.06541	0.25550
	A3->Y (RF)	0.01425	0.06263	0.25250

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7R	A0N	0.00111	0.00122	0.00161
	A0N	-0.00014	-0.00014	-0.00013
	A0N	0.00007	0.00007	0.00007
	A0N	0.00109	0.00120	0.00159
	A1N	0.00103	0.00114	0.00151
	A1N	-0.00010	-0.00010	-0.00009
	A1N	0.00007	0.00007	0.00007
	A1N	0.00105	0.00116	0.00153
	A2	0.00092	0.00096	0.00112
	A2	-0.00008	-0.00007	-0.00005
	A2	0.00008	0.00009	0.00009
	A2	0.00005	0.00010	0.00026
	A3	0.00078	0.00084	0.00110
	A3	-0.00002	-0.00002	-0.00002
	A3	0.00008	0.00009	0.00009
	A3	0.00006	0.00012	0.00038

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7R	A0N	0.00087	0.00099	0.00141
	A0N	0.00013	0.00014	0.00014
	A0N	-0.00007	-0.00007	-0.00007
	A0N	0.00083	0.00096	0.00137
	A1N	0.00105	0.00116	0.00157
	A1N	0.00009	0.00010	0.00010
	A1N	-0.00007	-0.00007	-0.00007
	A1N	0.00100	0.00111	0.00153
	A2	-0.00007	-0.00002	0.00022
	A2	0.00005	0.00007	0.00009
	A2	-0.00009	-0.00009	-0.00008
	A2	0.00075	0.00083	0.00108
	A3	-0.00008	-0.00000	0.00028
	A3	0.00002	0.00003	0.00009
	A3	-0.00009	-0.00009	-0.00008
	A3	0.00065	0.00071	0.00100

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7R	(A1N * A2 * A3 * !Y)	-0.00001	0.00009	0.00048
	(A1N * A2 * A3 * !Y)	0.00003	0.00003	0.00004
	(A1N * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * A3 * !Y)	0.00064	0.00075	0.00113
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00001	0.00009	0.00048
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00003	0.00003	0.00004
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00064	0.00075	0.00113
	(!A1N * A3 * !Y)	0.00003	0.00014	0.00052
	(!A1N * A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A3 * !Y)	0.00068	0.00079	0.00117
	(!A1N * A2 * !A3 * !Y)	0.00003	0.00014	0.00052
	(!A1N * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A2 * !A3 * !Y)	0.00068	0.00079	0.00117

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7R	(A1N * A2 * A3 * !Y)	0.00078	0.00090	0.00132
	(A1N * A2 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A1N * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * A3 * !Y)	0.00013	0.00024	0.00066
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00078	0.00090	0.00132
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00012	0.00024	0.00066
	(!A1N * A3 * !Y)	0.00074	0.00086	0.00128
	(!A1N * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A3 * !Y)	0.00008	0.00020	0.00062
	(!A1N * A2 * !A3 * !Y)	0.00074	0.00086	0.00128
	(!A1N * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A2 * !A3 * !Y)	0.00008	0.00020	0.00062

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7R	(A2 * A3 * !Y)	0.00001	0.00011	0.00048
	(A2 * A3 * !Y)	0.00003	0.00003	0.00004
	(A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * A3 * !Y)	0.00065	0.00076	0.00112
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00012	0.00049
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00003	0.00003	0.00003
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00066	0.00076	0.00112

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7R	(A2 * A3 * !Y)	0.00089	0.00100	0.00140
	(A2 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A2 * A3 * !Y)	0.00024	0.00035	0.00076
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00089	0.00100	0.00140
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00024	0.00035	0.00076

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7R	(A0N * A1N * A3 * !Y)	-0.00010	-0.00009	-0.00007
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A1N * A3 * !Y)	0.00000	0.00000	0.00001
	(A0N * A1N * A3 * !Y)	0.00028	0.00028	0.00029
	(!A1N * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * A3 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1N * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1N * A3 * !Y)	0.00024	0.00024	0.00024
	(!A1N * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A1N * !A3 * !Y)	0.00024	0.00024	0.00024
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A1N * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * A3 * !Y)	0.00029	0.00030	0.00030
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A3 * !Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7R	(A0N * A1N * A3 * !Y)	0.00010	0.00010	0.00010
	(A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00000	-0.00000
	(A0N * A1N * A3 * !Y)	-0.00028	-0.00028	-0.00027
	(!A1N * A3 * !Y)	0.00005	0.00005	0.00005
	(!A1N * A3 * !Y)	0.00004	0.00005	0.00005
	(!A1N * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * A3 * !Y)	-0.00024	-0.00024	-0.00023
	(!A1N * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A1N * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !A3 * !Y)	-0.00024	-0.00024	-0.00023
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A1N * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * A3 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	0.00000	0.00000	0.00001
	(A2 * !Y)	0.00031	0.00031	0.00031
	(!A1N * !A2 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A1N * !A2 * !Y)	0.00027	0.00027	0.00027
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00031	0.00031	0.00031

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX0P7H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00031	-0.00031	-0.00030
	(!A1N * !A2 * !Y)	0.00004	0.00004	0.00004
	(!A1N * !A2 * !Y)	0.00002	0.00002	0.00002
	(!A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !A2 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	0.00002	0.00002	0.00002
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00031	-0.00031	-0.00031

NOR4BBX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX1H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX1H7R	0.00083	0.00072	0.00081	0.00084	0.01429

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX1H7R	0.00000	0.25061	0.81617

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX1H7R	A0N->Y (RR)	0.07949	0.20471	0.51005
	A1N->Y (RR)	0.08109	0.20841	0.51849
	A2->Y (FR)	0.05930	0.20859	0.64734
	A3->Y (FR)	0.05078	0.19998	0.63784

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX1H7R	A0N->Y (FF)	0.03542	0.08776	0.20573
	A1N->Y (FF)	0.03827	0.09242	0.21452
	A2->Y (RF)	0.01445	0.06441	0.25735
	A3->Y (RF)	0.01335	0.06155	0.25429

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX1H7R	A0N	0.00126	0.00138	0.00175
	A0N	-0.00017	-0.00017	-0.00017
	A0N	0.00009	0.00009	0.00009
	A0N	0.00114	0.00125	0.00163
	A1N	0.00115	0.00126	0.00163
	A1N	-0.00012	-0.00012	-0.00012
	A1N	0.00009	0.00009	0.00009
	A1N	0.00108	0.00119	0.00156
	A2	0.00102	0.00106	0.00126
	A2	-0.00009	-0.00009	-0.00008
	A2	0.00010	0.00010	0.00010
	A2	0.00003	0.00008	0.00027
	A3	0.00085	0.00092	0.00123
	A3	-0.00003	-0.00003	-0.00002
	A3	0.00010	0.00010	0.00010
	A3	0.00005	0.00012	0.00043

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX1H7R	A0N	0.00090	0.00102	0.00143
	A0N	0.00017	0.00017	0.00017
	A0N	-0.00009	-0.00009	-0.00009
	A0N	0.00097	0.00109	0.00150
	A1N	0.00106	0.00117	0.00157
	A1N	0.00012	0.00012	0.00012
	A1N	-0.00009	-0.00009	-0.00009
	A1N	0.00108	0.00120	0.00159
	A2	-0.00008	-0.00002	0.00027
	A2	0.00008	0.00009	0.00009
	A2	-0.00010	-0.00010	-0.00010
	A2	0.00085	0.00094	0.00123
	A3	-0.00008	-0.00000	0.00034
	A3	0.00002	0.00003	0.00007
	A3	-0.00010	-0.00010	-0.00009
	A3	0.00072	0.00079	0.00114

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7R	(A1N * A2 * A3 * !Y)	0.00000	0.00011	0.00049
	(A1N * A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1N * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * A3 * !Y)	0.00066	0.00076	0.00114
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00000	0.00011	0.00049
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00066	0.00076	0.00114
	(!A1N * A3 * !Y)	0.00005	0.00015	0.00053
	(!A1N * A3 * !Y)	0.00004	0.00004	0.00004
	(!A1N * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A3 * !Y)	0.00070	0.00080	0.00118
	(!A1N * A2 * !A3 * !Y)	0.00005	0.00015	0.00053
	(!A1N * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A1N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A2 * !A3 * !Y)	0.00070	0.00080	0.00118

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7R	(A1N * A2 * A3 * !Y)	0.00080	0.00092	0.00133
	(A1N * A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1N * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * A3 * !Y)	0.00015	0.00026	0.00068
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00080	0.00092	0.00133
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00015	0.00026	0.00068
	(!A1N * A3 * !Y)	0.00075	0.00087	0.00129
	(!A1N * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A3 * !Y)	0.00010	0.00022	0.00063
	(!A1N * A2 * !A3 * !Y)	0.00075	0.00087	0.00129
	(!A1N * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A2 * !A3 * !Y)	0.00010	0.00022	0.00063

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7R	(A2 * A3 * !Y)	0.00003	0.00013	0.00049
	(A2 * A3 * !Y)	0.00003	0.00004	0.00004
	(A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * A3 * !Y)	0.00068	0.00078	0.00115
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00003	0.00013	0.00050
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00003	0.00003	0.00004
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00068	0.00078	0.00115

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7R	(A2 * A3 * !Y)	0.00089	0.00100	0.00139
	(A2 * A3 * !Y)	-0.00004	-0.00004	-0.00003
	(A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A2 * A3 * !Y)	0.00022	0.00034	0.00074
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00089	0.00100	0.00139
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00004	-0.00003	-0.00003
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00022	0.00034	0.00074

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7R	(A0N * A1N * A3 * !Y)	-0.00011	-0.00010	-0.00008
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	0.00030	0.00031	0.00032
	(!A1N * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1N * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1N * A3 * !Y)	0.00000	0.00000	0.00001
	(!A1N * A3 * !Y)	0.00025	0.00026	0.00026
	(!A1N * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A1N * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A1N * !A3 * !Y)	0.00025	0.00025	0.00025
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00033	0.00033	0.00033
	(!A0N * A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A3 * !Y)	0.00031	0.00032	0.00032

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7R	(A0N * A1N * A3 * !Y)	0.00011	0.00011	0.00011
	(A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0N * A1N * A3 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1N * A3 * !Y)	0.00006	0.00006	0.00006
	(!A1N * A3 * !Y)	0.00006	0.00006	0.00006
	(!A1N * A3 * !Y)	-0.00000	-0.00000	0.00000
	(!A1N * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1N * !A3 * !Y)	0.00006	0.00006	0.00007
	(!A1N * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !A3 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A1N * A3 * !Y)	-0.00033	-0.00033	-0.00032
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00003	0.00004	0.00004
	(!A0N * A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00032	-0.00032	-0.00031

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00033	0.00033	0.00033
	(!A1N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A1N * !A2 * !Y)	0.00029	0.00030	0.00030
	(!A0N * A1N * !A2 * !Y)	-0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	0.00033	0.00033	0.00033

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00003	0.00003	0.00003
	(A2 * !Y)	-0.00001	-0.00000	-0.00000
	(A2 * !Y)	-0.00033	-0.00033	-0.00033
	(!A1N * !A2 * !Y)	0.00003	0.00003	0.00004
	(!A1N * !A2 * !Y)	0.00002	0.00003	0.00003
	(!A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !A2 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0N * A1N * !A2 * !Y)	-0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	0.00002	0.00003	0.00003
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00033	-0.00033	-0.00033

NOR4BBX1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX1P4H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX1P4H7R	0.00086	0.00072	0.00087	0.00089	0.01628

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX1P4H7R	0.00000	0.25993	0.91216

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX1P4H7R	A0N->Y (RR)	0.07807	0.20521	0.51477
	A1N->Y (RR)	0.07941	0.20888	0.52355
	A2->Y (FR)	0.05604	0.20615	0.64803
	A3->Y (FR)	0.04689	0.19684	0.63762

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX1P4H7R	A0N->Y (FF)	0.03618	0.08949	0.20939
	A1N->Y (FF)	0.03922	0.09458	0.21912
	A2->Y (RF)	0.01376	0.06318	0.25550
	A3->Y (RF)	0.01260	0.06016	0.25228

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7R	A0N	0.00143	0.00154	0.00192
	A0N	-0.00020	-0.00020	-0.00019
	A0N	0.00010	0.00010	0.00010
	A0N	0.00124	0.00135	0.00172
	A1N	0.00130	0.00141	0.00177
	A1N	-0.00014	-0.00014	-0.00014
	A1N	0.00010	0.00010	0.00010
	A1N	0.00117	0.00128	0.00164
	A2	0.00113	0.00118	0.00141
	A2	-0.00010	-0.00010	-0.00008
	A2	0.00011	0.00012	0.00012
	A2	0.00006	0.00011	0.00033
	A3	0.00093	0.00101	0.00137
	A3	-0.00004	-0.00003	-0.00002
	A3	0.00012	0.00012	0.00012
	A3	0.00008	0.00016	0.00052

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7R	A0N	0.00096	0.00108	0.00148
	A0N	0.00019	0.00020	0.00020
	A0N	-0.00010	-0.00010	-0.00010
	A0N	0.00108	0.00120	0.00160
	A1N	0.00113	0.00125	0.00164
	A1N	0.00014	0.00014	0.00014
	A1N	-0.00010	-0.00010	-0.00010
	A1N	0.00122	0.00133	0.00171
	A2	-0.00009	-0.00003	0.00030
	A2	0.00008	0.00010	0.00010
	A2	-0.00012	-0.00012	-0.00011
	A2	0.00094	0.00102	0.00135
	A3	-0.00008	-0.00000	0.00039
	A3	0.00002	0.00003	0.00004
	A3	-0.00012	-0.00012	-0.00011
	A3	0.00075	0.00084	0.00125

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7R	(A1N * A2 * A3 * !Y)	0.00001	0.00011	0.00049
	(A1N * A2 * A3 * !Y)	0.00004	0.00004	0.00005
	(A1N * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * A3 * !Y)	0.00069	0.00079	0.00116
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00012	0.00049
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00069	0.00079	0.00117
	(!A1N * A3 * !Y)	0.00006	0.00016	0.00054
	(!A1N * A3 * !Y)	0.00004	0.00004	0.00004
	(!A1N * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A3 * !Y)	0.00073	0.00084	0.00121
	(!A1N * A2 * !A3 * !Y)	0.00006	0.00016	0.00054
	(!A1N * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A1N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A2 * !A3 * !Y)	0.00073	0.00084	0.00121

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7R	(A1N * A2 * A3 * !Y)	0.00085	0.00096	0.00136
	(A1N * A2 * A3 * !Y)	-0.00005	-0.00004	-0.00004
	(A1N * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * A3 * !Y)	0.00017	0.00028	0.00068
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00085	0.00096	0.00136
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00017	0.00028	0.00069
	(!A1N * A3 * !Y)	0.00080	0.00091	0.00132
	(!A1N * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A3 * !Y)	0.00012	0.00023	0.00064
	(!A1N * A2 * !A3 * !Y)	0.00080	0.00091	0.00131
	(!A1N * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A2 * !A3 * !Y)	0.00012	0.00023	0.00064

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7R	(A2 * A3 * !Y)	0.00004	0.00014	0.00049
	(A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * A3 * !Y)	0.00071	0.00081	0.00117
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00005	0.00015	0.00050
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00004	0.00004	0.00004
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00072	0.00081	0.00117

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7R	(A2 * A3 * !Y)	0.00094	0.00105	0.00144
	(A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A2 * A3 * !Y)	0.00026	0.00037	0.00077
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00095	0.00105	0.00144
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00027	0.00037	0.00077

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7R	(A0N * A1N * A3 * !Y)	-0.00013	-0.00012	-0.00010
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	0.00031	0.00032	0.00033
	(!A1N * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(!A1N * A3 * !Y)	0.00024	0.00025	0.00025
	(!A1N * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A1N * !A3 * !Y)	0.00025	0.00025	0.00025
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00035	0.00035	0.00035
	(!A0N * A1N * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00033	0.00033	0.00033

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7R	(A0N * A1N * A3 * !Y)	0.00014	0.00014	0.00014
	(A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * A1N * A3 * !Y)	-0.00031	-0.00031	-0.00030
	(!A1N * A3 * !Y)	0.00008	0.00008	0.00008
	(!A1N * A3 * !Y)	0.00007	0.00007	0.00007
	(!A1N * A3 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1N * A3 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1N * !A3 * !Y)	0.00008	0.00008	0.00008
	(!A1N * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A1N * A3 * !Y)	-0.00035	-0.00034	-0.00034
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00004	0.00005	0.00005
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00033	-0.00033	-0.00032

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00035	0.00035	0.00035
	(!A1N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A1N * !A2 * !Y)	0.00031	0.00032	0.00032
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00035	0.00035	0.00035

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX1P4H7R	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00003	0.00003	0.00003
	(A2 * !Y)	-0.00001	-0.00000	-0.00000
	(A2 * !Y)	-0.00035	-0.00035	-0.00034
	(!A1N * !A2 * !Y)	0.00004	0.00004	0.00004
	(!A1N * !A2 * !Y)	0.00003	0.00003	0.00003
	(!A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !A2 * !Y)	-0.00032	-0.00031	-0.00031
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00002	0.00003	0.00003
	(!A0N * A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00035	-0.00035	-0.00035

NOR4BBX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX2H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX2H7R	0.00085	0.00075	0.00094	0.00103	0.01922

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX2H7R	0.00000	0.27431	1.06343

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX2H7R	A0N->Y (RR)	0.07257	0.20197	0.51658
	A1N->Y (RR)	0.07302	0.20451	0.52372
	A2->Y (FR)	0.04995	0.20128	0.64848
	A3->Y (FR)	0.04159	0.19261	0.63819

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX2H7R	A0N->Y (FF)	0.03499	0.08859	0.20918
	A1N->Y (FF)	0.03783	0.09322	0.21797
	A2->Y (RF)	0.01244	0.06024	0.25068
	A3->Y (RF)	0.01146	0.05738	0.24737

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX2H7R	A0N	0.00158	0.00169	0.00206
	A0N	-0.00025	-0.00024	-0.00024
	A0N	0.00012	0.00013	0.00013
	A0N	0.00125	0.00136	0.00172
	A1N	0.00140	0.00151	0.00187
	A1N	-0.00018	-0.00017	-0.00017
	A1N	0.00013	0.00013	0.00013
	A1N	0.00117	0.00128	0.00164
	A2	0.00120	0.00126	0.00154
	A2	-0.00013	-0.00012	-0.00012
	A2	0.00014	0.00014	0.00014
	A2	-0.00000	0.00006	0.00033
	A3	0.00098	0.00107	0.00151
	A3	-0.00004	-0.00004	-0.00003
	A3	0.00014	0.00014	0.00014
	A3	-0.00001	0.00009	0.00053

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX2H7R	A0N	0.00097	0.00108	0.00149
	A0N	0.00024	0.00024	0.00025
	A0N	-0.00013	-0.00013	-0.00012
	A0N	0.00122	0.00134	0.00174
	A1N	0.00113	0.00125	0.00163
	A1N	0.00017	0.00017	0.00018
	A1N	-0.00013	-0.00013	-0.00013
	A1N	0.00130	0.00141	0.00180
	A2	-0.00011	-0.00003	0.00037
	A2	0.00012	0.00012	0.00016
	A2	-0.00014	-0.00014	-0.00014
	A2	0.00105	0.00114	0.00155
	A3	-0.00009	0.00000	0.00048
	A3	0.00003	0.00004	0.00005
	A3	-0.00014	-0.00014	-0.00014
	A3	0.00089	0.00098	0.00147

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7R	(A1N * A2 * A3 * !Y)	0.00004	0.00014	0.00050
	(A1N * A2 * A3 * !Y)	0.00004	0.00004	0.00005
	(A1N * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * A3 * !Y)	0.00071	0.00081	0.00118
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00004	0.00014	0.00051
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00004	0.00004	0.00005
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00071	0.00082	0.00118
	(!A1N * A3 * !Y)	0.00009	0.00019	0.00056
	(!A1N * A3 * !Y)	0.00004	0.00004	0.00005
	(!A1N * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A3 * !Y)	0.00076	0.00086	0.00123
	(!A1N * A2 * !A3 * !Y)	0.00009	0.00019	0.00056
	(!A1N * A2 * !A3 * !Y)	0.00004	0.00004	0.00005
	(!A1N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * A2 * !A3 * !Y)	0.00076	0.00086	0.00123

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7R	(A1N * A2 * A3 * !Y)	0.00085	0.00096	0.00136
	(A1N * A2 * A3 * !Y)	-0.00005	-0.00004	-0.00004
	(A1N * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * A3 * !Y)	0.00017	0.00028	0.00068
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00085	0.00096	0.00136
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00005	-0.00004	-0.00004
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00017	0.00028	0.00068
	(!A1N * A3 * !Y)	0.00079	0.00090	0.00130
	(!A1N * A3 * !Y)	-0.00005	-0.00004	-0.00004
	(!A1N * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A3 * !Y)	0.00012	0.00023	0.00063
	(!A1N * A2 * !A3 * !Y)	0.00079	0.00090	0.00130
	(!A1N * A2 * !A3 * !Y)	-0.00005	-0.00004	-0.00004
	(!A1N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1N * A2 * !A3 * !Y)	0.00011	0.00023	0.00063

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7R	(A2 * A3 * !Y)	0.00006	0.00016	0.00051
	(A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * A3 * !Y)	0.00076	0.00086	0.00121
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00007	0.00017	0.00052
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00004	0.00004	0.00004
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00077	0.00086	0.00121

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7R	(A2 * A3 * !Y)	0.00094	0.00105	0.00143
	(A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A2 * A3 * !Y)	0.00024	0.00034	0.00073
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00094	0.00105	0.00143
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00023	0.00034	0.00073

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7R	(A0N * A1N * A3 * !Y)	-0.00015	-0.00014	-0.00011
	(A0N * A1N * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	0.00033	0.00034	0.00035
	(!A1N * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(!A1N * A3 * !Y)	0.00027	0.00027	0.00028
	(!A1N * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * !A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1N * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A1N * !A3 * !Y)	0.00027	0.00027	0.00027
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00037	0.00037	0.00037
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00000	0.00000
	(!A0N * A1N * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00035	0.00035	0.00035

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7R	(A0N * A1N * A3 * !Y)	0.00016	0.00016	0.00016
	(A0N * A1N * A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00001	0.00000
	(A0N * A1N * A3 * !Y)	-0.00034	-0.00033	-0.00033
	(!A1N * A3 * !Y)	0.00008	0.00008	0.00008
	(!A1N * A3 * !Y)	0.00008	0.00008	0.00008
	(!A1N * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1N * !A3 * !Y)	0.00008	0.00008	0.00008
	(!A1N * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00008	0.00008	0.00008
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A1N * A3 * !Y)	-0.00037	-0.00037	-0.00037
	(!A0N * A1N * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00006	0.00006	0.00007
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00035	-0.00035	-0.00034

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	0.00040	0.00041	0.00041
	(!A1N * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A1N * !A2 * !Y)	0.00037	0.00037	0.00037
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * A1N * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00040	0.00041	0.00041

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX2H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00004	0.00004	0.00004
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	-0.00041	-0.00040	-0.00040
	(!A1N * !A2 * !Y)	0.00004	0.00004	0.00004
	(!A1N * !A2 * !Y)	0.00003	0.00003	0.00004
	(!A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !A2 * !Y)	-0.00037	-0.00037	-0.00036
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00003	0.00003	0.00004
	(!A0N * A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A2 * !Y)	-0.00041	-0.00041	-0.00040

NOR4BBX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX3H7R	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX3H7R	0.00081	0.00085	0.00156	0.00167	0.03086

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX3H7R	0.00000	0.38441	1.66239

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX3H7R	A0N->Y (RR)	0.07912	0.21633	0.55047
	A1N->Y (RR)	0.07752	0.21623	0.55429
	A2->Y (FR)	0.05307	0.20854	0.66563
	A3->Y (FR)	0.04029	0.19577	0.65268

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX3H7R	A0N->Y (FF)	0.03646	0.09390	0.22158
	A1N->Y (FF)	0.03938	0.09790	0.22874
	A2->Y (RF)	0.01282	0.06274	0.26049
	A3->Y (RF)	0.01155	0.05880	0.25609

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX3H7R	A0N	0.00311	0.00326	0.00372
	A0N	-0.00037	-0.00037	-0.00036
	A0N	0.00019	0.00020	0.00020
	A0N	0.00203	0.00217	0.00262
	A1N	0.00270	0.00284	0.00329
	A1N	-0.00030	-0.00026	-0.00023
	A1N	0.00019	0.00020	0.00020
	A1N	0.00178	0.00193	0.00236
	A2	0.00224	0.00233	0.00273
	A2	-0.00020	-0.00018	-0.00014
	A2	0.00021	0.00022	0.00022
	A2	0.00023	0.00032	0.00072
	A3	0.00171	0.00187	0.00259
	A3	-0.00006	-0.00006	-0.00003
	A3	0.00022	0.00022	0.00022
	A3	0.00014	0.00030	0.00101

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX3H7R	A0N	0.00141	0.00154	0.00204
	A0N	0.00036	0.00037	0.00037
	A0N	-0.00020	-0.00019	-0.00019
	A0N	0.00233	0.00247	0.00295
	A1N	0.00155	0.00170	0.00217
	A1N	0.00023	0.00026	0.00030
	A1N	-0.00020	-0.00020	-0.00019
	A1N	0.00236	0.00249	0.00295
	A2	-0.00019	-0.00005	0.00056
	A2	0.00014	0.00018	0.00024
	A2	-0.00022	-0.00022	-0.00021
	A2	0.00172	0.00189	0.00251
	A3	-0.00015	-0.00000	0.00075
	A3	0.00003	0.00006	0.00007
	A3	-0.00022	-0.00022	-0.00021
	A3	0.00141	0.00156	0.00233

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7R	(A1N * A2 * A3 * !Y)	0.00013	0.00025	0.00070
	(A1N * A2 * A3 * !Y)	0.00006	0.00007	0.00007
	(A1N * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1N * A2 * A3 * !Y)	0.00078	0.00090	0.00136
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00013	0.00025	0.00070
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00006	0.00007	0.00007
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00078	0.00090	0.00136
	(!A1N * A3 * !Y)	0.00029	0.00041	0.00086
	(!A1N * A3 * !Y)	0.00006	0.00007	0.00007
	(!A1N * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * A3 * !Y)	0.00093	0.00105	0.00151
	(!A1N * A2 * !A3 * !Y)	0.00029	0.00041	0.00086
	(!A1N * A2 * !A3 * !Y)	0.00006	0.00007	0.00007
	(!A1N * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * A2 * !A3 * !Y)	0.00093	0.00105	0.00151

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7R	(A1N * A2 * A3 * !Y)	0.00118	0.00131	0.00178
	(A1N * A2 * A3 * !Y)	-0.00007	-0.00007	-0.00006
	(A1N * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1N * A2 * A3 * !Y)	0.00051	0.00065	0.00113
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00118	0.00131	0.00178
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00007	-0.00007	-0.00006
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00052	0.00065	0.00113
	(!A1N * A3 * !Y)	0.00100	0.00113	0.00162
	(!A1N * A3 * !Y)	-0.00007	-0.00007	-0.00006
	(!A1N * A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * A3 * !Y)	0.00035	0.00049	0.00097
	(!A1N * A2 * !A3 * !Y)	0.00100	0.00113	0.00162
	(!A1N * A2 * !A3 * !Y)	-0.00007	-0.00007	-0.00006
	(!A1N * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A1N * A2 * !A3 * !Y)	0.00035	0.00049	0.00098

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7R	(A2 * A3 * !Y)	0.00026	0.00038	0.00081
	(A2 * A3 * !Y)	0.00006	0.00007	0.00007
	(A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * A3 * !Y)	0.00096	0.00108	0.00152
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00028	0.00040	0.00083
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00006	0.00006	0.00006
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00097	0.00109	0.00152

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7R	(A2 * A3 * !Y)	0.00119	0.00131	0.00177
	(A2 * A3 * !Y)	-0.00007	-0.00007	-0.00006
	(A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A2 * A3 * !Y)	0.00047	0.00059	0.00106
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00120	0.00132	0.00177
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00006	-0.00006	-0.00006
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00003	0.00003	0.00003
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00047	0.00060	0.00106

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7R	(A0N * A1N * A3 * !Y)	-0.00035	-0.00031	-0.00025
	(A0N * A1N * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	0.00043	0.00045	0.00049
	(!A1N * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1N * A3 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1N * A3 * !Y)	0.00000	0.00001	0.00001
	(!A1N * A3 * !Y)	0.00046	0.00047	0.00047
	(!A1N * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1N * !A3 * !Y)	-0.00009	-0.00009	-0.00008
	(!A1N * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1N * !A3 * !Y)	0.00045	0.00046	0.00046
	(!A0N * A1N * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * A1N * A3 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00055	0.00056	0.00056
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00052	0.00052	0.00052

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7R	(A0N * A1N * A3 * !Y)	0.00035	0.00035	0.00035
	(A0N * A1N * A3 * !Y)	0.00003	0.00003	0.00003
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * A1N * A3 * !Y)	-0.00043	-0.00043	-0.00042
	(!A1N * A3 * !Y)	0.00007	0.00007	0.00007
	(!A1N * A3 * !Y)	0.00012	0.00012	0.00012
	(!A1N * A3 * !Y)	-0.00001	-0.00001	0.00000
	(!A1N * A3 * !Y)	-0.00046	-0.00046	-0.00045
	(!A1N * !A3 * !Y)	0.00007	0.00007	0.00007
	(!A1N * !A3 * !Y)	0.00009	0.00009	0.00009
	(!A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !A3 * !Y)	-0.00046	-0.00045	-0.00044
	(!A0N * A1N * A3 * !Y)	0.00002	0.00002	0.00002
	(!A0N * A1N * A3 * !Y)	0.00012	0.00012	0.00012
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00055	-0.00055	-0.00054
	(!A0N * A1N * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0N * A1N * !A3 * !Y)	0.00008	0.00009	0.00009
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00052	-0.00052	-0.00052

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7R	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	0.00061	0.00062	0.00062
	(!A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !A2 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A1N * !A2 * !Y)	0.00061	0.00062	0.00062
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A1N * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00063	0.00063	0.00063

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX3H7R	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	0.00005	0.00005	0.00005
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	-0.00062	-0.00062	-0.00061
	(!A1N * !A2 * !Y)	0.00002	0.00002	0.00002
	(!A1N * !A2 * !Y)	0.00005	0.00005	0.00005
	(!A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !A2 * !Y)	-0.00062	-0.00061	-0.00060
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A2 * !Y)	-0.00063	-0.00063	-0.00062

NOR4BBX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4BB, In: AN, BN, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1N	A2	A3	Y
0	x	x	x	0
1	0	x	x	0
1	1	0	0	1
1	1	x	1	0
1	1	1	x	0

Footprint

Cell Name	Area
NOR4BBX4H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1N	A2	A3	Y
NOR4BBX4H7R	0.00088	0.00093	0.00180	0.00191	0.03959

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BBX4H7R	0.00000	0.46028	2.09211

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX4H7R	A0N->Y (RR)	0.07150	0.20948	0.54550
	A1N->Y (RR)	0.07007	0.20986	0.55010
	A2->Y (FR)	0.04639	0.20325	0.66700
	A3->Y (FR)	0.03374	0.19061	0.65344

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BBX4H7R	A0N->Y (FF)	0.03412	0.09145	0.21912
	A1N->Y (FF)	0.03739	0.09617	0.22769
	A2->Y (RF)	0.01146	0.05992	0.25627
	A3->Y (RF)	0.00756	0.05591	0.25227

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX4H7R	A0N	0.00362	0.00379	0.00430
	A0N	-0.00049	-0.00049	-0.00048
	A0N	0.00024	0.00026	0.00028
	A0N	0.00222	0.00239	0.00290
	A1N	0.00312	0.00328	0.00377
	A1N	-0.00038	-0.00035	-0.00034
	A1N	0.00026	0.00026	0.00026
	A1N	0.00194	0.00210	0.00259
	A2	0.00253	0.00264	0.00321
	A2	-0.00027	-0.00024	-0.00015
	A2	0.00028	0.00029	0.00030
	A2	0.00014	0.00026	0.00081
	A3	0.00189	0.00208	0.00305
	A3	-0.00009	-0.00008	-0.00007
	A3	0.00028	0.00028	0.00029
	A3	0.00004	0.00025	0.00120

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BBX4H7R	A0N	0.00151	0.00167	0.00224
	A0N	0.00048	0.00049	0.00049
	A0N	-0.00026	-0.00026	-0.00024
	A0N	0.00270	0.00286	0.00341
	A1N	0.00171	0.00187	0.00241
	A1N	0.00034	0.00035	0.00038
	A1N	-0.00026	-0.00026	-0.00026
	A1N	0.00274	0.00290	0.00344
	A2	-0.00027	-0.00006	0.00074
	A2	0.00015	0.00025	0.00034
	A2	-0.00029	-0.00028	-0.00026
	A2	0.00204	0.00224	0.00306
	A3	-0.00021	-0.00001	0.00100
	A3	0.00007	0.00008	0.00011
	A3	-0.00029	-0.00028	-0.00027
	A3	0.00163	0.00182	0.00285

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7R	(A1N * A2 * A3 * !Y)	0.00017	0.00031	0.00083
	(A1N * A2 * A3 * !Y)	0.00008	0.00008	0.00009
	(A1N * A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1N * A2 * A3 * !Y)	0.00090	0.00104	0.00155
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00018	0.00032	0.00083
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00008	0.00008	0.00009
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00090	0.00104	0.00156
	(!A1N * A3 * !Y)	0.00032	0.00046	0.00098
	(!A1N * A3 * !Y)	0.00008	0.00008	0.00008
	(!A1N * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * A3 * !Y)	0.00103	0.00117	0.00169
	(!A1N * A2 * !A3 * !Y)	0.00032	0.00046	0.00098
	(!A1N * A2 * !A3 * !Y)	0.00008	0.00008	0.00008
	(!A1N * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1N * A2 * !A3 * !Y)	0.00103	0.00117	0.00169

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7R	(A1N * A2 * A3 * !Y)	0.00126	0.00140	0.00194
	(A1N * A2 * A3 * !Y)	-0.00009	-0.00008	-0.00008
	(A1N * A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1N * A2 * A3 * !Y)	0.00052	0.00067	0.00121
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00126	0.00140	0.00194
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	-0.00009	-0.00008	-0.00008
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A1N * A2 * !A3 * !Y) + (A1N * !A2 * A3 * !Y) + (!A1N * !A2 * !A3 * !Y)	0.00052	0.00067	0.00121
	(!A1N * A3 * !Y)	0.00110	0.00124	0.00179
	(!A1N * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * A3 * !Y)	0.00004	0.00004	0.00004
	(!A1N * A3 * !Y)	0.00037	0.00052	0.00108
	(!A1N * A2 * !A3 * !Y)	0.00110	0.00124	0.00179
	(!A1N * A2 * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A1N * A2 * !A3 * !Y)	0.00037	0.00052	0.00108

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7R	(A2 * A3 * !Y)	0.00033	0.00046	0.00095
	(A2 * A3 * !Y)	0.00008	0.00009	0.00010
	(A2 * A3 * !Y)	-0.00004	-0.00004	-0.00003
	(A2 * A3 * !Y)	0.00111	0.00124	0.00174
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00035	0.00048	0.00098
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00007	0.00008	0.00008
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00112	0.00125	0.00174

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7R	(A2 * A3 * !Y)	0.00130	0.00143	0.00194
	(A2 * A3 * !Y)	-0.00010	-0.00009	-0.00008
	(A2 * A3 * !Y)	0.00003	0.00004	0.00004
	(A2 * A3 * !Y)	0.00049	0.00063	0.00116
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00130	0.00144	0.00194
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	-0.00008	-0.00008	-0.00007
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00004	0.00004	0.00004
	(A0N * A2 * !A3 * !Y) + (A0N * !A2 * A3 * !Y) + (!A0N * A2 * !A3 * !Y) + (!A0N * !A2 * !Y)	0.00049	0.00063	0.00116

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7R	(A0N * A1N * A3 * !Y)	-0.00041	-0.00036	-0.00030
	(A0N * A1N * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A1N * A3 * !Y)	0.00049	0.00052	0.00056
	(!A1N * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1N * A3 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1N * A3 * !Y)	0.00052	0.00053	0.00053
	(!A1N * !A3 * !Y)	-0.00008	-0.00007	-0.00007
	(!A1N * !A3 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1N * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A1N * !A3 * !Y)	0.00052	0.00052	0.00053
	(!A0N * A1N * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0N * A1N * A3 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0N * A1N * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * A3 * !Y)	0.00063	0.00064	0.00064
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A1N * !A3 * !Y)	0.00059	0.00059	0.00059

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7R	(A0N * A1N * A3 * !Y)	0.00041	0.00041	0.00042
	(A0N * A1N * A3 * !Y)	0.00003	0.00003	0.00004
	(A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A1N * A3 * !Y)	-0.00049	-0.00049	-0.00049
	(!A1N * A3 * !Y)	0.00008	0.00008	0.00008
	(!A1N * A3 * !Y)	0.00015	0.00015	0.00015
	(!A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * A3 * !Y)	-0.00053	-0.00052	-0.00051
	(!A1N * !A3 * !Y)	0.00008	0.00008	0.00008
	(!A1N * !A3 * !Y)	0.00011	0.00012	0.00012
	(!A1N * !A3 * !Y)	-0.00001	-0.00001	0.00000
	(!A1N * !A3 * !Y)	-0.00052	-0.00052	-0.00050
	(!A0N * A1N * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * A1N * A3 * !Y)	0.00016	0.00016	0.00016
	(!A0N * A1N * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * A3 * !Y)	-0.00063	-0.00063	-0.00062
	(!A0N * A1N * !A3 * !Y)	0.00001	0.00002	0.00002
	(!A0N * A1N * !A3 * !Y)	0.00011	0.00012	0.00012
	(!A0N * A1N * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A1N * !A3 * !Y)	-0.00059	-0.00059	-0.00058

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7R	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	-0.00006	-0.00006	-0.00006
	(A2 * !Y)	0.00001	0.00001	0.00002
	(A2 * !Y)	0.00069	0.00070	0.00071
	(!A1N * !A2 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1N * !A2 * !Y)	-0.00006	-0.00006	-0.00004
	(!A1N * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A1N * !A2 * !Y)	0.00070	0.00070	0.00071
	(!A0N * A1N * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00071	0.00071	0.00072

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BBX4H7R	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	0.00007	0.00007	0.00007
	(A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A2 * !Y)	-0.00070	-0.00070	-0.00069
	(!A1N * !A2 * !Y)	0.00002	0.00003	0.00004
	(!A1N * !A2 * !Y)	0.00004	0.00006	0.00007
	(!A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !A2 * !Y)	-0.00070	-0.00069	-0.00068
	(!A0N * A1N * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A1N * !A2 * !Y)	0.00006	0.00007	0.00007
	(!A0N * A1N * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A1N * !A2 * !Y)	-0.00071	-0.00071	-0.00071

NOR4BX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX0P5H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX0P5H7R	0.00081	0.00063	0.00071	0.00071	0.01065

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX0P5H7R	0.00000	0.14205	0.60464

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX0P5H7R	A0N->Y (RR)	0.08731	0.20872	0.50572
	A1->Y (FR)	0.07191	0.21318	0.61687
	A2->Y (FR)	0.06952	0.21664	0.64665
	A3->Y (FR)	0.06109	0.20863	0.63953

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX0P5H7R	A0N->Y (FF)	0.03594	0.08668	0.20109
	A1->Y (RF)	0.01645	0.06862	0.25951
	A2->Y (RF)	0.01630	0.06688	0.25701
	A3->Y (RF)	0.01519	0.06416	0.25399

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX0P5H7R	A0N	0.00100	0.00111	0.00150
	A0N	-0.00012	-0.00012	-0.00011
	A0N	0.00006	0.00006	0.00006
	A0N	0.00091	0.00102	0.00141
	A1	0.00095	0.00098	0.00111
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00007	0.00007	0.00008
	A1	-0.00001	0.00002	0.00015
	A2	0.00084	0.00088	0.00102
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00007	0.00007	0.00008
	A2	-0.00000	0.00004	0.00018
	A3	0.00072	0.00077	0.00101
	A3	-0.00002	-0.00002	0.00000
	A3	0.00007	0.00007	0.00008
	A3	-0.00001	0.00004	0.00027

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX0P5H7R	A0N	0.00085	0.00097	0.00139
	A0N	0.00011	0.00012	0.00012
	A0N	-0.00006	-0.00006	-0.00006
	A0N	0.00088	0.00100	0.00142
	A1	-0.00006	-0.00002	0.00020
	A1	0.00010	0.00010	0.00010
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00085	0.00090	0.00113
	A2	-0.00006	-0.00002	0.00020
	A2	0.00006	0.00006	0.00006
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00076	0.00081	0.00103
	A3	-0.00005	-0.00000	0.00024
	A3	0.00000	0.00002	0.00003
	A3	-0.00008	-0.00007	-0.00007
	A3	0.00066	0.00072	0.00098

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7R	(A1 * A3 * !Y)	-0.00002	0.00009	0.00048
	(A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	0.00065	0.00076	0.00115
	(A1 * A2 * !A3 * !Y)	-0.00002	0.00009	0.00048
	(A1 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00065	0.00076	0.00115
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	0.00009	0.00048
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00065	0.00076	0.00115
	(!A1 * A2 * A3 * !Y)	-0.00002	0.00008	0.00047
	(!A1 * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00065	0.00076	0.00115

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7R	(A1 * A3 * !Y)	0.00076	0.00088	0.00131
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	0.00009	0.00021	0.00063
	(A1 * A2 * !A3 * !Y)	0.00076	0.00088	0.00131
	(A1 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	0.00009	0.00021	0.00063
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00076	0.00088	0.00131
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00009	0.00021	0.00063
	(!A1 * A2 * A3 * !Y)	0.00077	0.00089	0.00131
	(!A1 * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * A3 * !Y)	0.00009	0.00021	0.00063

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7R	(A0N * A2 * A3 * !Y)	-0.00009	-0.00008	-0.00007
	(A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * A3 * !Y)	0.00022	0.00023	0.00023
	(A0N * A2 * !A3 * !Y)	-0.00009	-0.00008	-0.00007
	(A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * !A3 * !Y)	0.00023	0.00023	0.00023
	(A0N * !A2 * A3 * !Y)	-0.00009	-0.00008	-0.00006
	(A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * !A2 * A3 * !Y)	0.00023	0.00023	0.00023
	(!A0N * A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A2 * A3 * !Y)	0.00019	0.00019	0.00020
	(!A0N * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A2 * !A3 * !Y)	0.00019	0.00019	0.00020
	(!A0N * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A2 * A3 * !Y)	0.00019	0.00020	0.00020
	(!A0N * !A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A2 * !A3 * !Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7R	(A0N * A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(A0N * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * A3 * !Y)	-0.00023	-0.00022	-0.00022
	(A0N * A2 * !A3 * !Y)	0.00009	0.00009	0.00009
	(A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * !A3 * !Y)	-0.00023	-0.00023	-0.00023
	(A0N * !A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A2 * A3 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0N * A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A2 * A3 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0N * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A2 * !A3 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0N * !A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * !A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * A3 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0N * !A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * !A3 * !Y)	-0.00020	-0.00019	-0.00019

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7R	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00024	0.00024	0.00025
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00024	0.00024	0.00024
	(A0N * !A1 * A3 * !Y)	-0.00008	-0.00008	-0.00006
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * !A1 * A3 * !Y)	0.00024	0.00024	0.00025
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * A3 * !Y)	0.00023	0.00023	0.00024
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00000	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00023	0.00023	0.00024

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7R	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00024	-0.00024	-0.00024
	(A0N * !A1 * A3 * !Y)	0.00009	0.00009	0.00009
	(A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A1 * A3 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * A3 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0N * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00024	-0.00023	-0.00023

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7R	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00029	0.00029	0.00029
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00028	0.00029	0.00029
	(!A0N * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	0.00029	0.00029	0.00029

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P5H7R	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00029	-0.00029	-0.00028
	(!A0N * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00029	-0.00029	-0.00028

NOR4BX0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX0P7H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX0P7H7R	0.00083	0.00066	0.00074	0.00075	0.01205

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX0P7H7R	0.00000	0.14883	0.67534

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX0P7H7R	A0N->Y (RR)	0.08335	0.20661	0.50782
	A1->Y (FR)	0.06760	0.21003	0.61791
	A2->Y (FR)	0.06468	0.21288	0.64741
	A3->Y (FR)	0.05612	0.20455	0.63981

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX0P7H7R	A0N->Y (FF)	0.03555	0.08679	0.20228
	A1->Y (RF)	0.01553	0.06709	0.25794
	A2->Y (RF)	0.01529	0.06524	0.25582
	A3->Y (RF)	0.01420	0.06245	0.25272

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX0P7H7R	A0N	0.00109	0.00120	0.00159
	A0N	-0.00014	-0.00014	-0.00013
	A0N	0.00007	0.00007	0.00007
	A0N	0.00093	0.00104	0.00143
	A1	0.00103	0.00106	0.00121
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00008	0.00009	0.00009
	A1	-0.00001	0.00002	0.00016
	A2	0.00090	0.00094	0.00111
	A2	-0.00008	-0.00007	-0.00005
	A2	0.00008	0.00009	0.00009
	A2	-0.00001	0.00003	0.00020
	A3	0.00076	0.00082	0.00109
	A3	-0.00002	-0.00002	-0.00002
	A3	0.00008	0.00009	0.00009
	A3	-0.00002	0.00004	0.00030

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX0P7H7R	A0N	0.00087	0.00099	0.00141
	A0N	0.00013	0.00014	0.00014
	A0N	-0.00007	-0.00007	-0.00007
	A0N	0.00096	0.00109	0.00150
	A1	-0.00007	-0.00003	0.00022
	A1	0.00011	0.00012	0.00012
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00091	0.00097	0.00123
	A2	-0.00007	-0.00002	0.00022
	A2	0.00005	0.00007	0.00008
	A2	-0.00009	-0.00009	-0.00008
	A2	0.00080	0.00087	0.00112
	A3	-0.00006	-0.00000	0.00028
	A3	0.00002	0.00002	0.00004
	A3	-0.00009	-0.00009	-0.00008
	A3	0.00072	0.00077	0.00107

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7R	(A1 * A3 * !Y)	-0.00001	0.00010	0.00048
	(A1 * A3 * !Y)	0.00003	0.00003	0.00004
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	0.00067	0.00078	0.00116
	(A1 * A2 * !A3 * !Y)	-0.00001	0.00010	0.00048
	(A1 * A2 * !A3 * !Y)	0.00003	0.00003	0.00004
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00067	0.00078	0.00116
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00001	0.00010	0.00049
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00067	0.00078	0.00116
	(!A1 * A2 * A3 * !Y)	-0.00002	0.00009	0.00048
	(!A1 * A2 * A3 * !Y)	0.00003	0.00004	0.00004
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00067	0.00078	0.00116

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7R	(A1 * A3 * !Y)	0.00078	0.00090	0.00132
	(A1 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	0.00009	0.00021	0.00063
	(A1 * A2 * !A3 * !Y)	0.00078	0.00090	0.00132
	(A1 * A2 * !A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	0.00009	0.00021	0.00063
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00078	0.00090	0.00132
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00009	0.00021	0.00063
	(!A1 * A2 * A3 * !Y)	0.00079	0.00090	0.00132
	(!A1 * A2 * A3 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * A3 * !Y)	0.00009	0.00021	0.00063

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7R	(A0N * A2 * A3 * !Y)	-0.00010	-0.00009	-0.00008
	(A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * A3 * !Y)	0.00023	0.00023	0.00024
	(A0N * A2 * !A3 * !Y)	-0.00010	-0.00009	-0.00008
	(A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * !A3 * !Y)	0.00023	0.00023	0.00023
	(A0N * !A2 * A3 * !Y)	-0.00010	-0.00009	-0.00007
	(A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * !A2 * A3 * !Y)	0.00023	0.00023	0.00024
	(!A0N * A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A2 * A3 * !Y)	0.00020	0.00020	0.00021
	(!A0N * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * A2 * !A3 * !Y)	0.00020	0.00020	0.00021
	(!A0N * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A2 * A3 * !Y)	0.00020	0.00020	0.00021
	(!A0N * !A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A2 * !A3 * !Y)	-0.00004	-0.00003	-0.00004
	(!A0N * !A2 * !A3 * !Y)	0.00000	0.00000	0.00001
	(!A0N * !A2 * !A3 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7R	(A0N * A2 * A3 * !Y)	0.00010	0.00010	0.00010
	(A0N * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * A3 * !Y)	-0.00023	-0.00023	-0.00023
	(A0N * A2 * !A3 * !Y)	0.00010	0.00010	0.00010
	(A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * !A3 * !Y)	-0.00023	-0.00023	-0.00023
	(A0N * !A2 * A3 * !Y)	0.00010	0.00010	0.00010
	(A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A2 * A3 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0N * A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A2 * A3 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0N * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A2 * !A3 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0N * !A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * !A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * A3 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0N * !A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * !A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * !A3 * !Y)	-0.00020	-0.00020	-0.00020

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7R	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00025	0.00025	0.00026
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00025	0.00025	0.00025
	(A0N * !A1 * A3 * !Y)	-0.00009	-0.00009	-0.00007
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * !A1 * A3 * !Y)	0.00025	0.00025	0.00027
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * A3 * !Y)	0.00024	0.00024	0.00025
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A3 * !Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7R	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A0N * !A1 * A3 * !Y)	0.00010	0.00010	0.00010
	(A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A1 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * A3 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0N * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00024	-0.00024	-0.00024

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7R	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00030	0.00030	0.00030
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00030	0.00030	0.00030
	(!A0N * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00030	0.00030	0.00030

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX0P7H7R	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0N * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00030	-0.00030	-0.00030

NOR4BX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX1H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX1H7R	0.00083	0.00073	0.00078	0.00082	0.01432

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX1H7R	0.00000	0.15846	0.77219

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX1H7R	A0N->Y (RR)	0.07832	0.20388	0.51016
	A1->Y (FR)	0.06202	0.20569	0.61747
	A2->Y (FR)	0.05823	0.20759	0.64696
	A3->Y (FR)	0.05029	0.19951	0.63757

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX1H7R	A0N->Y (FF)	0.03546	0.08789	0.20609
	A1->Y (RF)	0.01459	0.06622	0.26002
	A2->Y (RF)	0.01424	0.06410	0.25708
	A3->Y (RF)	0.01329	0.06136	0.25399

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX1H7R	A0N	0.00124	0.00135	0.00173
	A0N	-0.00017	-0.00017	-0.00017
	A0N	0.00009	0.00009	0.00009
	A0N	0.00097	0.00108	0.00146
	A1	0.00115	0.00119	0.00136
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00010	0.00010	0.00010
	A1	-0.00002	0.00002	0.00018
	A2	0.00099	0.00104	0.00124
	A2	-0.00010	-0.00009	-0.00008
	A2	0.00010	0.00010	0.00010
	A2	-0.00001	0.00004	0.00023
	A3	0.00083	0.00090	0.00122
	A3	-0.00003	-0.00003	-0.00002
	A3	0.00010	0.00010	0.00010
	A3	-0.00003	0.00005	0.00036

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX1H7R	**A0N**	0.00091	0.00102	0.00144
	A0N	0.00017	0.00017	0.00017
	A0N	-0.00009	-0.00009	-0.00009
	A0N	0.00110	0.00122	0.00163
	A1	-0.00008	-0.00003	0.00026
	A1	0.00014	0.00014	0.00014
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00102	0.00110	0.00139
	A2	-0.00008	-0.00002	0.00027
	A2	0.00008	0.00009	0.00010
	A2	-0.00010	-0.00010	-0.00010
	A2	0.00087	0.00096	0.00125
	A3	-0.00007	-0.00000	0.00034
	A3	0.00002	0.00003	0.00003
	A3	-0.00010	-0.00010	-0.00010
	A3	0.00077	0.00085	0.00120

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7R	(A1 * A3 * !Y)	0.00001	0.00011	0.00049
	(A1 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	0.00069	0.00080	0.00118
	(A1 * A2 * !A3 * !Y)	0.00001	0.00011	0.00049
	(A1 * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00069	0.00080	0.00118
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00001	0.00012	0.00050
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00003	0.00003	0.00004
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00070	0.00080	0.00118
	(!A1 * A2 * A3 * !Y)	0.00000	0.00010	0.00048
	(!A1 * A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00070	0.00080	0.00118

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7R	(A1 * A3 * !Y)	0.00080	0.00092	0.00133
	(A1 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	0.00011	0.00023	0.00064
	(A1 * A2 * !A3 * !Y)	0.00080	0.00092	0.00133
	(A1 * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	0.00011	0.00023	0.00064
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00080	0.00092	0.00133
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00011	0.00023	0.00064
	(!A1 * A2 * A3 * !Y)	0.00081	0.00093	0.00134
	(!A1 * A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * A3 * !Y)	0.00011	0.00023	0.00064

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7R	(A0N * A2 * A3 * !Y)	-0.00011	-0.00011	-0.00009
	(A0N * A2 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(A0N * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A2 * A3 * !Y)	0.00025	0.00025	0.00025
	(A0N * A2 * !A3 * !Y)	-0.00012	-0.00011	-0.00009
	(A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * A2 * !A3 * !Y)	0.00025	0.00025	0.00025
	(A0N * !A2 * A3 * !Y)	-0.00011	-0.00010	-0.00008
	(A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * !A2 * A3 * !Y)	0.00025	0.00025	0.00025
	(!A0N * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A2 * A3 * !Y)	0.00022	0.00022	0.00022
	(!A0N * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * !A3 * !Y)	0.00000	0.00001	0.00000
	(!A0N * A2 * !A3 * !Y)	0.00022	0.00022	0.00022
	(!A0N * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A2 * A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0N * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A2 * A3 * !Y)	0.00022	0.00022	0.00022
	(!A0N * !A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A2 * !A3 * !Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7R	(A0N * A2 * A3 * !Y)	0.00011	0.00011	0.00011
	(A0N * A2 * A3 * !Y)	0.00001	0.00001	0.00002
	(A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A0N * A2 * !A3 * !Y)	0.00012	0.00012	0.00012
	(A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * A2 * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A0N * !A2 * A3 * !Y)	0.00011	0.00011	0.00011
	(A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0N * !A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0N * A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A2 * A3 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0N * A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * A2 * !A3 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0N * !A2 * A3 * !Y)	0.00004	0.00005	0.00005
	(!A0N * !A2 * A3 * !Y)	0.00005	0.00006	0.00006
	(!A0N * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A2 * A3 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0N * !A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A0N * !A2 * !A3 * !Y)	-0.00000	-0.00001	-0.00000
	(!A0N * !A2 * !A3 * !Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7R	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00026	0.00026	0.00026
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00026	0.00026	0.00026
	(A0N * !A1 * A3 * !Y)	-0.00011	-0.00010	-0.00008
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0N * !A1 * A3 * !Y)	0.00026	0.00026	0.00028
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00026	0.00026	0.00026
	(!A0N * !A1 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7R	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00006	0.00006	0.00006
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00026	-0.00026	-0.00025
	(A0N * !A1 * A3 * !Y)	0.00011	0.00012	0.00012
	(A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0N * !A1 * A3 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * A3 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00000	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00004	0.00004	0.00005
	(!A0N * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00026	-0.00026	-0.00025

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7R	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00003	-0.00002
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00032	0.00032	0.00033
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !Y)	0.00000	0.00001	0.00000
	(A1 * !A2 * !Y)	0.00032	0.00032	0.00033
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00001	0.00000
	(!A0N * !A1 * !A2 * !Y)	0.00032	0.00032	0.00033

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00003	0.00003	0.00003
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	0.00002	0.00002	0.00003
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00032	-0.00032	-0.00032

NOR4BX1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX1P4H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX1P4H7R	0.00085	0.00080	0.00081	0.00088	0.01633

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX1P4H7R	0.00000	0.16778	0.86818

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX1P4H7R	A0N->Y (RR)	0.07598	0.20345	0.51394
	A1->Y (FR)	0.05947	0.20403	0.62074
	A2->Y (FR)	0.05448	0.20468	0.64752
	A3->Y (FR)	0.04642	0.19635	0.63796

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX1P4H7R	A0N->Y (FF)	0.03580	0.08904	0.20900
	A1->Y (RF)	0.01396	0.06511	0.25847
	A2->Y (RF)	0.01347	0.06272	0.25584
	A3->Y (RF)	0.01252	0.05994	0.25267

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX1P4H7R	A0N	0.00139	0.00150	0.00188
	A0N	-0.00020	-0.00020	-0.00019
	A0N	0.00010	0.00010	0.00010
	A0N	0.00103	0.00114	0.00151
	A1	0.00128	0.00133	0.00151
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00012	0.00012	0.00012
	A1	-0.00002	0.00002	0.00021
	A2	0.00109	0.00114	0.00137
	A2	-0.00011	-0.00010	-0.00009
	A2	0.00012	0.00012	0.00012
	A2	0.00001	0.00006	0.00029
	A3	0.00090	0.00098	0.00134
	A3	-0.00004	-0.00003	-0.00003
	A3	0.00012	0.00012	0.00012
	A3	-0.00003	0.00006	0.00042

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX1P4H7R	A0N	0.00095	0.00106	0.00147
	A0N	0.00019	0.00020	0.00020
	A0N	-0.00010	-0.00010	-0.00010
	A0N	0.00122	0.00134	0.00175
	A1	-0.00009	-0.00003	0.00030
	A1	0.00016	0.00016	0.00016
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00112	0.00121	0.00155
	A2	-0.00011	-0.00003	0.00031
	A2	0.00009	0.00010	0.00013
	A2	-0.00012	-0.00012	-0.00012
	A2	0.00093	0.00103	0.00137
	A3	-0.00008	-0.00000	0.00039
	A3	0.00003	0.00003	0.00004
	A3	-0.00012	-0.00012	-0.00011
	A3	0.00084	0.00092	0.00132

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7R	(A1 * A3 * !Y)	0.00002	0.00012	0.00049
	(A1 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	0.00074	0.00084	0.00121
	(A1 * A2 * !A3 * !Y)	0.00002	0.00012	0.00050
	(A1 * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00074	0.00084	0.00121
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00003	0.00013	0.00050
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00074	0.00084	0.00121
	(!A1 * A2 * A3 * !Y)	0.00001	0.00012	0.00049
	(!A1 * A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00074	0.00084	0.00121

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7R	(A1 * A3 * !Y)	0.00084	0.00095	0.00136
	(A1 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	0.00012	0.00023	0.00064
	(A1 * A2 * !A3 * !Y)	0.00084	0.00095	0.00136
	(A1 * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	0.00012	0.00023	0.00064
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00084	0.00095	0.00136
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00012	0.00023	0.00064
	(!A1 * A2 * A3 * !Y)	0.00085	0.00096	0.00136
	(!A1 * A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * A3 * !Y)	0.00012	0.00023	0.00064

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7R	(A0N * A2 * A3 * !Y)	-0.00013	-0.00012	-0.00010
	(A0N * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A0N * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A2 * A3 * !Y)	0.00027	0.00027	0.00027
	(A0N * A2 * !A3 * !Y)	-0.00013	-0.00012	-0.00010
	(A0N * A2 * !A3 * !Y)	-0.00002	-0.00001	-0.00001
	(A0N * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A2 * !A3 * !Y)	0.00027	0.00027	0.00027
	(A0N * !A2 * A3 * !Y)	-0.00013	-0.00011	-0.00008
	(A0N * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A0N * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * !A2 * A3 * !Y)	0.00027	0.00027	0.00027
	(!A0N * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A2 * A3 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0N * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A2 * A3 * !Y)	0.00023	0.00023	0.00023
	(!A0N * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * A2 * !A3 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A2 * !A3 * !Y)	0.00023	0.00023	0.00023
	(!A0N * !A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A2 * A3 * !Y)	0.00023	0.00023	0.00023
	(!A0N * !A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A2 * !A3 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7R	(A0N * A2 * A3 * !Y)	0.00013	0.00013	0.00013
	(A0N * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * A2 * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(A0N * A2 * !A3 * !Y)	0.00013	0.00013	0.00013
	(A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00002
	(A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * A2 * !A3 * !Y)	-0.00027	-0.00027	-0.00027
	(A0N * !A2 * A3 * !Y)	0.00012	0.00012	0.00013
	(A0N * !A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * !A2 * A3 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0N * A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A2 * A3 * !Y)	0.00006	0.00007	0.00007
	(!A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A2 * A3 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0N * A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * A2 * !A3 * !Y)	0.00006	0.00006	0.00007
	(!A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A2 * !A3 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0N * !A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A2 * A3 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0N * !A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A2 * !A3 * !Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7R	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00025	0.00025	0.00025
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00025	0.00025	0.00025
	(A0N * !A1 * A3 * !Y)	-0.00014	-0.00012	-0.00010
	(A0N * !A1 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * !A1 * A3 * !Y)	0.00024	0.00025	0.00027
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00025	0.00025	0.00025
	(!A0N * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00024	0.00025	0.00025

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7R	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00007	0.00007	0.00007
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A0N * !A1 * A3 * !Y)	0.00014	0.00014	0.00014
	(A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00002
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * !A1 * A3 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00007	0.00007	0.00007
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A1 * A3 * !Y)	-0.00025	-0.00025	-0.00024
	(!A0N * !A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00025	-0.00025	-0.00024

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7R	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00034	0.00034	0.00035
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00034	0.00034	0.00034
	(!A0N * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0N * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00034	0.00034	0.00034

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX1P4H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00003	0.00003	0.00003
	(A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A2 * !Y)	-0.00034	-0.00034	-0.00034
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00034	-0.00034	-0.00034
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00002	0.00003	0.00003
	(!A0N * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00034	-0.00034	-0.00034

NOR4BX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX2H7R	0.00085	0.00091	0.00096	0.00096	0.01925

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX2H7R	0.00000	0.18216	1.01945

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX2H7R	A0N->Y (RR)	0.07165	0.20124	0.51642
	A1->Y (FR)	0.05471	0.20048	0.62131
	A2->Y (FR)	0.05021	0.20137	0.64813
	A3->Y (FR)	0.04097	0.19202	0.63804

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX2H7R	A0N->Y (FF)	0.03502	0.08864	0.20938
	A1->Y (RF)	0.01281	0.06256	0.25391
	A2->Y (RF)	0.01246	0.06024	0.25099
	A3->Y (RF)	0.01138	0.05720	0.24792

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX2H7R	A0N	0.00156	0.00167	0.00204
	A0N	-0.00025	-0.00024	-0.00024
	A0N	0.00013	0.00013	0.00013
	A0N	0.00104	0.00115	0.00151
	A1	0.00142	0.00147	0.00170
	A1	-0.00020	-0.00020	-0.00019
	A1	0.00014	0.00014	0.00014
	A1	-0.00008	-0.00003	0.00021
	A2	0.00119	0.00126	0.00154
	A2	-0.00013	-0.00012	-0.00012
	A2	0.00014	0.00014	0.00014
	A2	-0.00005	0.00001	0.00029
	A3	0.00096	0.00105	0.00150
	A3	-0.00004	-0.00004	-0.00003
	A3	0.00014	0.00014	0.00014
	A3	-0.00008	0.00002	0.00046

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX2H7R	A0N	0.00097	0.00108	0.00149
	A0N	0.00024	0.00024	0.00025
	A0N	-0.00013	-0.00013	-0.00013
	A0N	0.00138	0.00150	0.00191
	A1	-0.00011	-0.00004	0.00036
	A1	0.00019	0.00020	0.00020
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00128	0.00139	0.00179
	A2	-0.00011	-0.00003	0.00037
	A2	0.00012	0.00012	0.00014
	A2	-0.00014	-0.00014	-0.00014
	A2	0.00109	0.00118	0.00159
	A3	-0.00009	0.00000	0.00049
	A3	0.00003	0.00004	0.00005
	A3	-0.00014	-0.00014	-0.00014
	A3	0.00095	0.00103	0.00153

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7R	(A1 * A3 * !Y)	0.00004	0.00014	0.00051
	(A1 * A3 * !Y)	0.00004	0.00004	0.00005
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	0.00077	0.00087	0.00124
	(A1 * A2 * !A3 * !Y)	0.00004	0.00014	0.00051
	(A1 * A2 * !A3 * !Y)	0.00004	0.00004	0.00005
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00077	0.00087	0.00124
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00005	0.00015	0.00052
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00077	0.00087	0.00124
	(!A1 * A2 * A3 * !Y)	0.00004	0.00014	0.00050
	(!A1 * A2 * A3 * !Y)	0.00004	0.00004	0.00005
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00077	0.00087	0.00124

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7R	(A1 * A3 * !Y)	0.00085	0.00096	0.00136
	(A1 * A3 * !Y)	-0.00005	-0.00004	-0.00004
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	0.00012	0.00023	0.00063
	(A1 * A2 * !A3 * !Y)	0.00085	0.00096	0.00136
	(A1 * A2 * !A3 * !Y)	-0.00005	-0.00004	-0.00004
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	0.00012	0.00023	0.00063
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00085	0.00096	0.00136
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00012	0.00023	0.00063
	(!A1 * A2 * A3 * !Y)	0.00086	0.00097	0.00136
	(!A1 * A2 * A3 * !Y)	-0.00005	-0.00004	-0.00004
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * A3 * !Y)	0.00012	0.00023	0.00063

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7R	(A0N * A2 * A3 * !Y)	-0.00015	-0.00014	-0.00012
	(A0N * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A2 * A3 * !Y)	0.00029	0.00029	0.00030
	(A0N * A2 * !A3 * !Y)	-0.00016	-0.00014	-0.00012
	(A0N * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * !A3 * !Y)	0.00029	0.00029	0.00030
	(A0N * !A2 * A3 * !Y)	-0.00015	-0.00013	-0.00010
	(A0N * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A0N * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * !A2 * A3 * !Y)	0.00029	0.00030	0.00030
	(!A0N * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0N * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * A2 * A3 * !Y)	0.00025	0.00025	0.00025
	(!A0N * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A2 * !A3 * !Y)	0.00025	0.00025	0.00025
	(!A0N * !A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * A3 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A2 * A3 * !Y)	0.00025	0.00025	0.00025
	(!A0N * !A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A2 * !A3 * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7R	(A0N * A2 * A3 * !Y)	0.00015	0.00015	0.00015
	(A0N * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * A2 * A3 * !Y)	-0.00029	-0.00029	-0.00029
	(A0N * A2 * !A3 * !Y)	0.00016	0.00016	0.00016
	(A0N * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A2 * !A3 * !Y)	-0.00029	-0.00029	-0.00029
	(A0N * !A2 * A3 * !Y)	0.00015	0.00015	0.00015
	(A0N * !A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * !A2 * A3 * !Y)	-0.00029	-0.00029	-0.00029
	(!A0N * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * A3 * !Y)	0.00008	0.00008	0.00008
	(!A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0N * A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * !A3 * !Y)	0.00008	0.00008	0.00008
	(!A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * A2 * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0N * !A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * A3 * !Y)	0.00007	0.00008	0.00008
	(!A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0N * !A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A2 * !A3 * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7R	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	0.00029	0.00029	0.00029
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00029	0.00029	0.00029
	(A0N * !A1 * A3 * !Y)	-0.00015	-0.00014	-0.00011
	(A0N * !A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * !A1 * A3 * !Y)	0.00028	0.00029	0.00031
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0N * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00029	0.00029	0.00029
	(!A0N * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00029	0.00029	0.00029

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7R	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00008	0.00008	0.00008
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A3 * !Y)	-0.00029	-0.00029	-0.00029
	(A0N * !A1 * A3 * !Y)	0.00016	0.00016	0.00016
	(A0N * !A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * !A1 * A3 * !Y)	-0.00029	-0.00028	-0.00028
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00008	0.00008	0.00008
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A1 * A3 * !Y)	-0.00029	-0.00029	-0.00028
	(!A0N * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00005	0.00006	0.00006
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A1 * !A3 * !Y)	-0.00029	-0.00029	-0.00028

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7R	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	0.00037	0.00037	0.00037
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00037	0.00037	0.00037
	(!A0N * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00037	0.00037	0.00037

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX2H7R	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00004	0.00004	0.00004
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	-0.00037	-0.00037	-0.00037
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !Y)	-0.00037	-0.00037	-0.00037
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0N * !A1 * !A2 * !Y)	0.00003	0.00003	0.00004
	(!A0N * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A2 * !Y)	-0.00037	-0.00037	-0.00037

NOR4BX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX3H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX3H7R	0.00095	0.00159	0.00159	0.00162	0.03074

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX3H7R	0.00000	0.26234	1.60051

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX3H7R	A0N->Y (RR)	0.08083	0.21810	0.55219
	A1->Y (FR)	0.06132	0.21188	0.64153
	A2->Y (FR)	0.05436	0.20977	0.66593
	A3->Y (FR)	0.04038	0.19599	0.65286

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX3H7R	A0N->Y (FF)	0.03780	0.09509	0.22245
	A1->Y (RF)	0.01347	0.06581	0.26352
	A2->Y (RF)	0.01299	0.06298	0.26016
	A3->Y (RF)	0.01159	0.05878	0.25534

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX3H7R	A0N	0.00317	0.00332	0.00376
	A0N	-0.00037	-0.00037	-0.00036
	A0N	0.00019	0.00020	0.00020
	A0N	0.00179	0.00194	0.00238
	A1	0.00276	0.00283	0.00312
	A1	-0.00032	-0.00029	-0.00028
	A1	0.00022	0.00022	0.00022
	A1	0.00011	0.00018	0.00047
	A2	0.00228	0.00236	0.00276
	A2	-0.00020	-0.00018	-0.00018
	A2	0.00021	0.00022	0.00022
	A2	0.00013	0.00022	0.00061
	A3	0.00173	0.00188	0.00260
	A3	-0.00006	-0.00006	-0.00004
	A3	0.00021	0.00022	0.00022
	A3	0.00003	0.00019	0.00090

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX3H7R	A0N	0.00147	0.00161	0.00208
	A0N	0.00036	0.00037	0.00037
	A0N	-0.00020	-0.00020	-0.00019
	A0N	0.00262	0.00276	0.00322
	A1	-0.00019	-0.00006	0.00053
	A1	0.00028	0.00029	0.00032
	A1	-0.00022	-0.00022	-0.00021
	A1	0.00224	0.00243	0.00303
	A2	-0.00018	-0.00004	0.00056
	A2	0.00018	0.00018	0.00021
	A2	-0.00022	-0.00022	-0.00021
	A2	0.00188	0.00203	0.00265
	A3	-0.00015	-0.00001	0.00075
	A3	0.00004	0.00006	0.00008
	A3	-0.00022	-0.00022	-0.00021
	A3	0.00153	0.00167	0.00245

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7R	(A1 * A3 * !Y)	0.00013	0.00025	0.00069
	(A1 * A3 * !Y)	0.00007	0.00007	0.00007
	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A3 * !Y)	0.00094	0.00106	0.00151
	(A1 * A2 * !A3 * !Y)	0.00013	0.00025	0.00069
	(A1 * A2 * !A3 * !Y)	0.00007	0.00007	0.00007
	(A1 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * !A3 * !Y)	0.00094	0.00106	0.00151
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00014	0.00026	0.00071
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00006	0.00006	0.00007
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00095	0.00107	0.00152
	(!A1 * A2 * A3 * !Y)	0.00011	0.00023	0.00068
	(!A1 * A2 * A3 * !Y)	0.00007	0.00007	0.00007
	(!A1 * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * A3 * !Y)	0.00096	0.00107	0.00152

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7R	(A1 * A3 * !Y)	0.00119	0.00131	0.00179
	(A1 * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A3 * !Y)	0.00036	0.00049	0.00097
	(A1 * A2 * !A3 * !Y)	0.00119	0.00131	0.00178
	(A1 * A2 * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * !A3 * !Y)	0.00036	0.00049	0.00097
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00119	0.00132	0.00179
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00007	-0.00006	-0.00006
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00036	0.00049	0.00097
	(!A1 * A2 * A3 * !Y)	0.00121	0.00134	0.00180
	(!A1 * A2 * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1 * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * A3 * !Y)	0.00035	0.00048	0.00096

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7R	(A0N * A2 * A3 * !Y)	-0.00033	-0.00030	-0.00026
	(A0N * A2 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A0N * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * A2 * A3 * !Y)	0.00046	0.00047	0.00047
	(A0N * A2 * !A3 * !Y)	-0.00033	-0.00030	-0.00025
	(A0N * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0N * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A0N * A2 * !A3 * !Y)	0.00046	0.00047	0.00048
	(A0N * !A2 * A3 * !Y)	-0.00032	-0.00028	-0.00022
	(A0N * !A2 * A3 * !Y)	-0.00004	-0.00003	-0.00002
	(A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00002
	(A0N * !A2 * A3 * !Y)	0.00047	0.00047	0.00048
	(!A0N * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0N * A2 * A3 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0N * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A2 * A3 * !Y)	0.00049	0.00049	0.00049
	(!A0N * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0N * A2 * !A3 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A2 * !A3 * !Y)	0.00049	0.00049	0.00050
	(!A0N * !A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A2 * A3 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A2 * A3 * !Y)	0.00050	0.00050	0.00050
	(!A0N * !A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A2 * !A3 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0N * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A2 * !A3 * !Y)	0.00048	0.00049	0.00049

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7R	(A0N * A2 * A3 * !Y)	0.00032	0.00032	0.00033
	(A0N * A2 * A3 * !Y)	0.00003	0.00003	0.00004
	(A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * A2 * A3 * !Y)	-0.00046	-0.00046	-0.00046
	(A0N * A2 * !A3 * !Y)	0.00033	0.00033	0.00034
	(A0N * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * A2 * !A3 * !Y)	-0.00046	-0.00046	-0.00046
	(A0N * !A2 * A3 * !Y)	0.00032	0.00032	0.00032
	(A0N * !A2 * A3 * !Y)	0.00002	0.00003	0.00004
	(A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * !A2 * A3 * !Y)	-0.00047	-0.00047	-0.00047
	(!A0N * A2 * A3 * !Y)	0.00005	0.00006	0.00006
	(!A0N * A2 * A3 * !Y)	0.00012	0.00013	0.00013
	(!A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A2 * A3 * !Y)	-0.00049	-0.00049	-0.00048
	(!A0N * A2 * !A3 * !Y)	0.00005	0.00006	0.00006
	(!A0N * A2 * !A3 * !Y)	0.00012	0.00012	0.00012
	(!A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A2 * !A3 * !Y)	-0.00049	-0.00049	-0.00048
	(!A0N * !A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A2 * A3 * !Y)	0.00011	0.00012	0.00012
	(!A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A2 * A3 * !Y)	-0.00050	-0.00050	-0.00049
	(!A0N * !A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A2 * !A3 * !Y)	0.00009	0.00009	0.00009
	(!A0N * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A2 * !A3 * !Y)	-0.00049	-0.00049	-0.00048

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7R	(A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A3 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	0.00048	0.00048	0.00049
	(A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * !A3 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A3 * !Y)	0.00047	0.00048	0.00048
	(A0N * !A1 * A3 * !Y)	-0.00034	-0.00030	-0.00024
	(A0N * !A1 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * !A1 * A3 * !Y)	0.00045	0.00047	0.00050
	(!A0N * !A1 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0N * !A1 * A3 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00049	0.00050	0.00051
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A3 * !Y)	-0.00009	-0.00008	-0.00008
	(!A0N * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00048	0.00049	0.00049

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7R	(A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A3 * !Y)	0.00011	0.00011	0.00011
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	-0.00048	-0.00048	-0.00047
	(A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A3 * !Y)	0.00008	0.00009	0.00009
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A3 * !Y)	-0.00048	-0.00047	-0.00047
	(A0N * !A1 * A3 * !Y)	0.00034	0.00034	0.00034
	(A0N * !A1 * A3 * !Y)	0.00002	0.00003	0.00003
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * !A1 * A3 * !Y)	-0.00045	-0.00045	-0.00044
	(!A0N * !A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * !A1 * A3 * !Y)	0.00012	0.00012	0.00012
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0N * !A1 * A3 * !Y)	-0.00050	-0.00049	-0.00049
	(!A0N * !A1 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0N * !A1 * !A3 * !Y)	0.00008	0.00009	0.00009
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A3 * !Y)	-0.00049	-0.00048	-0.00047

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7R	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A2 * !Y)	0.00001	0.00001	0.00002
	(A2 * !Y)	0.00061	0.00061	0.00062
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00061	0.00061	0.00061
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0N * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00061	0.00061	0.00062

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX3H7R	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	0.00005	0.00005	0.00005
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	-0.00061	-0.00061	-0.00061
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00005	0.00005	0.00005
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00061	-0.00060	-0.00059
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00001	0.00002
	(!A0N * !A1 * !A2 * !Y)	0.00004	0.00005	0.00006
	(!A0N * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A2 * !Y)	-0.00061	-0.00061	-0.00060

NOR4BX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4B, In: AN, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0N	A1	A2	A3	Y
0	x	x	x	0
1	0	0	0	1
1	0	x	1	0
1	x	1	x	0
1	1	x	x	0

Footprint

Cell Name	Area
NOR4BX4H7R	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0N	A1	A2	A3	Y
NOR4BX4H7R	0.00100	0.00185	0.00183	0.00188	0.03829

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4BX4H7R	0.00000	0.32015	2.02152

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX4H7R	A0N->Y (RR)	0.07436	0.20970	0.53868
	A1->Y (FR)	0.05539	0.20432	0.63185
	A2->Y (FR)	0.04835	0.20187	0.65598
	A3->Y (FR)	0.03527	0.18895	0.64310

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4BX4H7R	A0N->Y (FF)	0.03600	0.09301	0.21968
	A1->Y (RF)	0.01220	0.06245	0.25512
	A2->Y (RF)	0.01181	0.05954	0.25193
	A3->Y (RF)	0.00917	0.05539	0.24718

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX4H7R	A0N	0.00376	0.00392	0.00443
	A0N	-0.00049	-0.00049	-0.00048
	A0N	0.00026	0.00026	0.00026
	A0N	0.00193	0.00210	0.00260
	A1	0.00325	0.00334	0.00374
	A1	-0.00042	-0.00039	-0.00037
	A1	0.00028	0.00029	0.00029
	A1	0.00005	0.00014	0.00053
	A2	0.00264	0.00275	0.00329
	A2	-0.00026	-0.00024	-0.00023
	A2	0.00027	0.00029	0.00029
	A2	0.00005	0.00016	0.00069
	A3	0.00198	0.00218	0.00313
	A3	-0.00008	-0.00008	-0.00007
	A3	0.00028	0.00028	0.00029
	A3	-0.00004	0.00016	0.00110

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4BX4H7R	A0N	0.00162	0.00177	0.00232
	A0N	0.00048	0.00049	0.00049
	A0N	-0.00026	-0.00026	-0.00026
	A0N	0.00316	0.00332	0.00383
	A1	-0.00025	-0.00009	0.00068
	A1	0.00037	0.00039	0.00042
	A1	-0.00029	-0.00028	-0.00028
	A1	0.00268	0.00292	0.00369
	A2	-0.00022	-0.00007	0.00071
	A2	0.00023	0.00024	0.00033
	A2	-0.00029	-0.00028	-0.00025
	A2	0.00223	0.00244	0.00324
	A3	-0.00024	-0.00004	0.00096
	A3	0.00007	0.00008	0.00018
	A3	-0.00029	-0.00028	-0.00027
	A3	0.00178	0.00196	0.00299

Passive power(pJ) for A0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7R	(A1 * A3 * !Y)	0.00018	0.00032	0.00083
	(A1 * A3 * !Y)	0.00008	0.00009	0.00009
	(A1 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A3 * !Y)	0.00106	0.00119	0.00170
	(A1 * A2 * !A3 * !Y)	0.00018	0.00032	0.00083
	(A1 * A2 * !A3 * !Y)	0.00008	0.00009	0.00009
	(A1 * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A2 * !A3 * !Y)	0.00106	0.00120	0.00170
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00020	0.00034	0.00085
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00007	0.00007	0.00008
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00003
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00106	0.00120	0.00171
	(!A1 * A2 * A3 * !Y)	0.00016	0.00030	0.00080
	(!A1 * A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(!A1 * A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * A3 * !Y)	0.00107	0.00121	0.00171

Passive power(pJ) for A0N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7R	(A1 * A3 * !Y)	0.00129	0.00143	0.00196
	(A1 * A3 * !Y)	-0.00009	-0.00009	-0.00008
	(A1 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * A3 * !Y)	0.00039	0.00054	0.00108
	(A1 * A2 * !A3 * !Y)	0.00129	0.00143	0.00196
	(A1 * A2 * !A3 * !Y)	-0.00009	-0.00009	-0.00008
	(A1 * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * A2 * !A3 * !Y)	0.00039	0.00054	0.00108
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00129	0.00143	0.00196
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00003	0.00004	0.00004
	(A1 * !A2 * !A3 * !Y) + (!A1 * A2 * !A3 * !Y) + (!A1 * !A2 * A3 * !Y)	0.00039	0.00054	0.00108
	(!A1 * A2 * A3 * !Y)	0.00132	0.00146	0.00198
	(!A1 * A2 * A3 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * A3 * !Y)	0.00039	0.00054	0.00108

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7R	(A0N * A2 * A3 * !Y)	-0.00040	-0.00036	-0.00030
	(A0N * A2 * A3 * !Y)	-0.00005	-0.00004	-0.00004
	(A0N * A2 * A3 * !Y)	0.00001	0.00001	0.00002
	(A0N * A2 * A3 * !Y)	0.00053	0.00053	0.00054
	(A0N * A2 * !A3 * !Y)	-0.00040	-0.00036	-0.00030
	(A0N * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00003
	(A0N * A2 * !A3 * !Y)	0.00053	0.00054	0.00054
	(A0N * !A2 * A3 * !Y)	-0.00038	-0.00033	-0.00026
	(A0N * !A2 * A3 * !Y)	-0.00005	-0.00004	-0.00004
	(A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00002
	(A0N * !A2 * A3 * !Y)	0.00054	0.00054	0.00055
	(!A0N * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * A3 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0N * A2 * A3 * !Y)	0.00001	0.00001	0.00002
	(!A0N * A2 * A3 * !Y)	0.00056	0.00056	0.00057
	(!A0N * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * A2 * !A3 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0N * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * A2 * !A3 * !Y)	0.00056	0.00057	0.00057
	(!A0N * !A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0N * !A2 * A3 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0N * !A2 * A3 * !Y)	0.00001	0.00001	0.00002
	(!A0N * !A2 * A3 * !Y)	0.00056	0.00057	0.00057
	(!A0N * !A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0N * !A2 * !A3 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0N * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A2 * !A3 * !Y)	0.00056	0.00056	0.00057

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7R	(A0N * A2 * A3 * !Y)	0.00039	0.00040	0.00040
	(A0N * A2 * A3 * !Y)	0.00004	0.00004	0.00005
	(A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * A2 * A3 * !Y)	-0.00054	-0.00053	-0.00053
	(A0N * A2 * !A3 * !Y)	0.00040	0.00040	0.00041
	(A0N * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0N * A2 * !A3 * !Y)	-0.00054	-0.00053	-0.00053
	(A0N * !A2 * A3 * !Y)	0.00038	0.00038	0.00038
	(A0N * !A2 * A3 * !Y)	0.00004	0.00005	0.00005
	(A0N * !A2 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(A0N * !A2 * A3 * !Y)	-0.00054	-0.00054	-0.00053
	(!A0N * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * A3 * !Y)	0.00016	0.00016	0.00016
	(!A0N * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A2 * A3 * !Y)	-0.00056	-0.00056	-0.00055
	(!A0N * A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * A2 * !A3 * !Y)	0.00015	0.00016	0.00016
	(!A0N * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * A2 * !A3 * !Y)	-0.00057	-0.00056	-0.00056
	(!A0N * !A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(!A0N * !A2 * A3 * !Y)	0.00015	0.00015	0.00015
	(!A0N * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A2 * A3 * !Y)	-0.00057	-0.00056	-0.00056
	(!A0N * !A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(!A0N * !A2 * !A3 * !Y)	0.00011	0.00012	0.00012
	(!A0N * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A2 * !A3 * !Y)	-0.00056	-0.00056	-0.00055

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7R	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	-0.00015	-0.00015	-0.00015
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	0.00056	0.00057	0.00057
	(A1 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A3 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00055	0.00056	0.00056
	(A0N * !A1 * A3 * !Y)	-0.00041	-0.00036	-0.00030
	(A0N * !A1 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0N * !A1 * A3 * !Y)	0.00053	0.00055	0.00059
	(!A0N * !A1 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0N * !A1 * A3 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0N * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * A3 * !Y)	0.00057	0.00057	0.00058
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A3 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0N * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A3 * !Y)	0.00056	0.00056	0.00056

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7R	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	0.00015	0.00015	0.00015
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	-0.00056	-0.00055	-0.00055
	(A1 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A3 * !Y)	0.00011	0.00011	0.00011
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A3 * !Y)	-0.00055	-0.00055	-0.00055
	(A0N * !A1 * A3 * !Y)	0.00041	0.00041	0.00042
	(A0N * !A1 * A3 * !Y)	0.00003	0.00003	0.00004
	(A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0N * !A1 * A3 * !Y)	-0.00053	-0.00052	-0.00052
	(!A0N * !A1 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0N * !A1 * A3 * !Y)	0.00016	0.00016	0.00016
	(!A0N * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * A3 * !Y)	-0.00057	-0.00057	-0.00056
	(!A0N * !A1 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0N * !A1 * !A3 * !Y)	0.00011	0.00012	0.00012
	(!A0N * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A3 * !Y)	-0.00056	-0.00056	-0.00056

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7R	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00007	-0.00007	-0.00007
	(A2 * !Y)	0.00001	0.00001	0.00002
	(A2 * !Y)	0.00069	0.00070	0.00070
	(A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !Y)	0.00069	0.00070	0.00070
	(!A0N * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0N * !A1 * !A2 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0N * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00069	0.00070	0.00070

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4BX4H7R	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00008	0.00008	0.00008
	(A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A2 * !Y)	-0.00070	-0.00070	-0.00069
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00007	0.00007	0.00007
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00070	-0.00069	-0.00069
	(!A0N * !A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A0N * !A1 * !A2 * !Y)	0.00007	0.00008	0.00009
	(!A0N * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0N * !A1 * !A2 * !Y)	-0.00070	-0.00070	-0.00069

NOR4X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X0P5H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X0P5H7R	0.00064	0.00063	0.00068	0.00076	0.01062

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X0P5H7R	0.00000	0.04990	0.56066

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X0P5H7R	A0->Y (FR)	0.07576	0.21102	0.58834
	A1->Y (FR)	0.07317	0.21420	0.61690
	A2->Y (FR)	0.07004	0.21701	0.64629
	A3->Y (FR)	0.06433	0.21128	0.64211

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X0P5H7R	A0->Y (RF)	0.01688	0.07077	0.26193
	A1->Y (RF)	0.01668	0.06896	0.25988
	A2->Y (RF)	0.01640	0.06707	0.25700
	A3->Y (RF)	0.01581	0.06496	0.25461

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X0P5H7R	A0	0.00110	0.00113	0.00124
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00007	0.00007	0.00008
	A0	-0.00009	-0.00006	0.00005
	A1	0.00097	0.00101	0.00113
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00007	0.00007	0.00008
	A1	-0.00003	-0.00000	0.00012
	A2	0.00086	0.00090	0.00104
	A2	-0.00006	-0.00006	-0.00005
	A2	0.00007	0.00007	0.00008
	A2	-0.00003	0.00001	0.00015
	A3	0.00075	0.00081	0.00104
	A3	-0.00002	-0.00002	-0.00002
	A3	0.00007	0.00007	0.00008
	A3	-0.00007	-0.00001	0.00021

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X0P5H7R	A0	-0.00007	-0.00003	0.00020
	A0	0.00014	0.00014	0.00014
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00103	0.00110	0.00133
	A1	-0.00006	-0.00002	0.00020
	A1	0.00010	0.00010	0.00010
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00088	0.00095	0.00117
	A2	-0.00006	-0.00002	0.00020
	A2	0.00005	0.00006	0.00006
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00080	0.00086	0.00108
	A3	-0.00006	-0.00001	0.00023
	A3	0.00002	0.00002	0.00003
	A3	-0.00007	-0.00007	-0.00007
	A3	0.00077	0.00081	0.00106

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7R	(A1 * A3 * !Y)	-0.00008	-0.00007	-0.00006
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00024	0.00025	0.00025
	(A1 * A2 * !A3 * !Y)	-0.00008	-0.00007	-0.00006
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * !A3 * !Y)	0.00024	0.00024	0.00025
	(A1 * !A2 * !A3 * !Y)	-0.00008	-0.00007	-0.00006
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !A3 * !Y)	0.00024	0.00025	0.00025
	(!A1 * A2 * A3 * !Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * A3 * !Y)	0.00024	0.00025	0.00025
	(!A1 * A2 * !A3 * !Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !A3 * !Y)	0.00024	0.00025	0.00025
	(!A1 * !A2 * A3 * !Y)	-0.00008	-0.00007	-0.00006
	(!A1 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * A3 * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7R	(A1 * A3 * !Y)	0.00008	0.00008	0.00008
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00025	-0.00024	-0.00024
	(A1 * A2 * !A3 * !Y)	0.00008	0.00008	0.00008
	(A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * !A3 * !Y)	-0.00025	-0.00024	-0.00024
	(A1 * !A2 * !A3 * !Y)	0.00008	0.00008	0.00008
	(A1 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !A3 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * A2 * A3 * !Y)	0.00008	0.00008	0.00008
	(!A1 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * A3 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * A2 * !A3 * !Y)	0.00008	0.00008	0.00008
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !A3 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !A2 * A3 * !Y)	0.00007	0.00008	0.00008
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * A3 * !Y)	-0.00025	-0.00024	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7R	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * A3 * !Y)	0.00019	0.00019	0.00019
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A2 * A3 * !Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * A3 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A2 * !A3 * !Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !A3 * !Y)	0.00018	0.00018	0.00019
	(!A0 * !A2 * A3 * !Y)	-0.00009	-0.00007	-0.00006
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * A3 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7R	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(!A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * A3 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * A2 * !A3 * !Y)	0.00009	0.00009	0.00009
	(!A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !A3 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !A2 * A3 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * A3 * !Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7R	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A3 * !Y)	0.00000	0.00000	0.00001
	(A1 * A3 * !Y)	0.00021	0.00021	0.00021
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * A3 * !Y)	-0.00009	-0.00008	-0.00007
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * A3 * !Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7R	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * A3 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * A3 * !Y)	-0.00021	-0.00020	-0.00020

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00030	0.00030	0.00030
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00030	0.00030	0.00030
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00030	0.00030	0.00030

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P5H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00030	-0.00030	-0.00030

NOR4X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X0P7H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X0P7H7R	0.00067	0.00067	0.00071	0.00080	0.01202

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X0P7H7R	0.00000	0.05668	0.63137

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X0P7H7R	A0->Y (FR)	0.07129	0.20788	0.59010
	A1->Y (FR)	0.06874	0.21091	0.61704
	A2->Y (FR)	0.06540	0.21343	0.64706
	A3->Y (FR)	0.05915	0.20708	0.64151

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X0P7H7R	A0->Y (RF)	0.01589	0.06921	0.26035
	A1->Y (RF)	0.01574	0.06739	0.25783
	A2->Y (RF)	0.01542	0.06548	0.25563
	A3->Y (RF)	0.01479	0.06321	0.25299

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X0P7H7R	A0	0.00119	0.00122	0.00135
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00009	0.00009	0.00009
	A0	-0.00009	-0.00006	0.00006
	A1	0.00105	0.00109	0.00123
	A1	-0.00012	-0.00012	-0.00011
	A1	0.00009	0.00009	0.00009
	A1	-0.00004	-0.00001	0.00013
	A2	0.00092	0.00096	0.00113
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00009	0.00009	0.00009
	A2	-0.00004	0.00000	0.00016
	A3	0.00080	0.00086	0.00112
	A3	-0.00003	-0.00002	-0.00001
	A3	0.00008	0.00009	0.00009
	A3	-0.00008	-0.00001	0.00024

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X0P7H7R	**A0**	-0.00007	-0.00003	0.00022
	A0	0.00016	0.00016	0.00016
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00112	0.00119	0.00145
	A1	-0.00007	-0.00002	0.00023
	A1	0.00011	0.00012	0.00012
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00095	0.00103	0.00128
	A2	-0.00006	-0.00002	0.00022
	A2	0.00007	0.00007	0.00007
	A2	-0.00009	-0.00009	-0.00009
	A2	0.00086	0.00092	0.00117
	A3	-0.00006	-0.00001	0.00027
	A3	0.00001	0.00002	0.00003
	A3	-0.00009	-0.00009	-0.00008
	A3	0.00081	0.00087	0.00115

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7R	(A1 * A3 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00025	0.00025	0.00025
	(A1 * A2 * !A3 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * !A3 * !Y)	0.00025	0.00025	0.00025
	(A1 * !A2 * !A3 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !A3 * !Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * A3 * !Y)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * A3 * !Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * A3 * !Y)	0.00025	0.00025	0.00026
	(!A1 * A2 * !A3 * !Y)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !A3 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !A2 * A3 * !Y)	-0.00009	-0.00008	-0.00006
	(!A1 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * A3 * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7R	(A1 * A3 * !Y)	0.00009	0.00009	0.00009
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * A2 * !A3 * !Y)	0.00009	0.00009	0.00009
	(A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !A2 * !A3 * !Y)	0.00009	0.00009	0.00009
	(A1 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(!A1 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * A2 * !A3 * !Y)	0.00009	0.00009	0.00009
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !A2 * A3 * !Y)	0.00009	0.00009	0.00009
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7R	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * A3 * !Y)	0.00020	0.00020	0.00020
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * A3 * !Y)	-0.00010	-0.00009	-0.00008
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * A3 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * !A3 * !Y)	-0.00010	-0.00009	-0.00008
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !A3 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A2 * A3 * !Y)	-0.00009	-0.00008	-0.00006
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * A3 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7R	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00003	0.00003	0.00004
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * A3 * !Y)	0.00010	0.00010	0.00010
	(!A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * A3 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A2 * !A3 * !Y)	0.00010	0.00010	0.00010
	(!A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !A3 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * A3 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * A3 * !Y)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7R	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * A3 * !Y)	0.00000	0.00000	0.00001
	(A1 * A3 * !Y)	0.00022	0.00022	0.00022
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * A3 * !Y)	-0.00010	-0.00009	-0.00007
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * A3 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7R	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !A1 * A3 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * A3 * !Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00031	0.00032	0.00032
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00031	0.00032	0.00032
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00031	0.00031	0.00031

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X0P7H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00032	-0.00031	-0.00031
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00031	-0.00031	-0.00031

NOR4X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X1H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X1H7R	0.00071	0.00075	0.00081	0.00085	0.01437

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X1H7R	0.00000	0.06631	0.72821

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X1H7R	A0->Y (FR)	0.06254	0.20132	0.58930
	A1->Y (FR)	0.06121	0.20509	0.61823
	A2->Y (FR)	0.05733	0.20687	0.64752
	A3->Y (FR)	0.04916	0.19864	0.63844

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X1H7R	A0->Y (RF)	0.01427	0.06754	0.26170
	A1->Y (RF)	0.01443	0.06599	0.26038
	A2->Y (RF)	0.01409	0.06383	0.25722
	A3->Y (RF)	0.01311	0.06102	0.25454

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X1H7R	A0	0.00128	0.00132	0.00147
	A0	-0.00019	-0.00019	-0.00019
	A0	0.00010	0.00010	0.00010
	A0	-0.00013	-0.00010	0.00006
	A1	0.00113	0.00117	0.00134
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00010	0.00010	0.00010
	A1	-0.00009	-0.00005	0.00012
	A2	0.00096	0.00101	0.00121
	A2	-0.00009	-0.00009	-0.00009
	A2	0.00010	0.00010	0.00010
	A2	-0.00009	-0.00005	0.00015
	A3	0.00080	0.00087	0.00119
	A3	-0.00003	-0.00003	-0.00002
	A3	0.00010	0.00010	0.00010
	A3	-0.00012	-0.00005	0.00027

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X1H7R	A0	-0.00009	-0.00003	0.00027
	A0	0.00019	0.00019	0.00019
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00122	0.00130	0.00161
	A1	-0.00008	-0.00003	0.00027
	A1	0.00014	0.00014	0.00014
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00106	0.00114	0.00143
	A2	-0.00008	-0.00002	0.00027
	A2	0.00009	0.00009	0.00009
	A2	-0.00010	-0.00010	-0.00010
	A2	0.00093	0.00101	0.00131
	A3	-0.00007	-0.00000	0.00034
	A3	0.00002	0.00003	0.00003
	A3	-0.00010	-0.00010	-0.00010
	A3	0.00083	0.00092	0.00127

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7R	(A1 * A3 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	0.00000	0.00001	0.00000
	(A1 * A3 * !Y)	0.00026	0.00026	0.00026
	(A1 * A2 * !A3 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	0.00026	0.00026	0.00026
	(A1 * !A2 * !A3 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !A3 * !Y)	0.00000	0.00001	0.00000
	(A1 * !A2 * !A3 * !Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * A3 * !Y)	-0.00010	-0.00009	-0.00008
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !A3 * !Y)	-0.00011	-0.00009	-0.00008
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !A2 * A3 * !Y)	-0.00010	-0.00009	-0.00008
	(!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7R	(A1 * A3 * !Y)	0.00011	0.00011	0.00011
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * A2 * !A3 * !Y)	0.00011	0.00011	0.00011
	(A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	-0.00000	-0.00001	-0.00000
	(A1 * A2 * !A3 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !A2 * !A3 * !Y)	0.00011	0.00011	0.00011
	(A1 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !A3 * !Y)	-0.00000	-0.00001	-0.00000
	(A1 * !A2 * !A3 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * A3 * !Y)	0.00010	0.00010	0.00010
	(!A1 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * A3 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * !A3 * !Y)	0.00010	0.00010	0.00011
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	-0.00000	-0.00001	-0.00000
	(!A1 * A2 * !A3 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !A2 * A3 * !Y)	0.00010	0.00010	0.00010
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * A3 * !Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7R	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00022	0.00022	0.00023
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * !A3 * !Y)	0.00022	0.00022	0.00023
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * A3 * !Y)	0.00023	0.00022	0.00023
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !A3 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A2 * A3 * !Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A2 * !A3 * !Y)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !A3 * !Y)	0.00000	0.00001	0.00000
	(!A0 * A2 * !A3 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A2 * A3 * !Y)	-0.00011	-0.00010	-0.00008
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7R	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00001	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A2 * A3 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A2 * A3 * !Y)	-0.00000	-0.00001	-0.00000
	(!A0 * A2 * A3 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A2 * !A3 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !A3 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A2 * A3 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * A3 * !Y)	-0.00022	-0.00022	-0.00022

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7R	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00025	0.00026	0.00026
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00025	0.00025	0.00026
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00001	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * A3 * !Y)	-0.00011	-0.00010	-0.00008
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	0.00025	0.00026	0.00027

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7R	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00006	0.00006	0.00006
	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * A3 * !Y)	0.00011	0.00011	0.00012
	(!A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * A3 * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7R	(A2 * !Y)	-0.00000	-0.00000	0.00000
	(A2 * !Y)	-0.00002	-0.00003	-0.00002
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00033	0.00033	0.00033
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00033	0.00033	0.00033
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !Y)	0.00033	0.00033	0.00033

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00003	0.00003	0.00003
	(A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A2 * !Y)	-0.00033	-0.00033	-0.00033
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00002	0.00003	0.00002
	(A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * !Y)	-0.00000	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00033	-0.00033	-0.00033

NOR4X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X1P4H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X1P4H7R	0.00081	0.00082	0.00086	0.00095	0.01623

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X1P4H7R	0.00000	0.07563	0.82420

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X1P4H7R	A0->Y (FR)	0.06467	0.20340	0.59240
	A1->Y (FR)	0.06230	0.20628	0.62010
	A2->Y (FR)	0.05782	0.20746	0.64858
	A3->Y (FR)	0.05069	0.19998	0.63939

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X1P4H7R	A0->Y (RF)	0.01461	0.06770	0.26078
	A1->Y (RF)	0.01454	0.06591	0.25861
	A2->Y (RF)	0.01410	0.06370	0.25575
	A3->Y (RF)	0.01331	0.06111	0.25276

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X1P4H7R	A0	0.00155	0.00159	0.00175
	A0	-0.00022	-0.00022	-0.00022
	A0	0.00012	0.00012	0.00012
	A0	-0.00007	-0.00003	0.00012
	A1	0.00136	0.00140	0.00158
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00012	0.00012	0.00012
	A1	-0.00003	0.00001	0.00019
	A2	0.00117	0.00122	0.00145
	A2	-0.00011	-0.00010	-0.00010
	A2	0.00012	0.00012	0.00012
	A2	-0.00004	0.00002	0.00023
	A3	0.00100	0.00108	0.00143
	A3	-0.00004	-0.00003	-0.00003
	A3	0.00012	0.00012	0.00012
	A3	-0.00006	0.00002	0.00036

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X1P4H7R	**A0**	-0.00010	-0.00004	0.00029
	A0	0.00022	0.00022	0.00022
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00139	0.00149	0.00183
	A1	-0.00009	-0.00003	0.00029
	A1	0.00016	0.00016	0.00016
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00122	0.00130	0.00163
	A2	-0.00009	-0.00003	0.00030
	A2	0.00010	0.00010	0.00011
	A2	-0.00012	-0.00012	-0.00012
	A2	0.00108	0.00116	0.00149
	A3	-0.00008	-0.00001	0.00037
	A3	0.00003	0.00003	0.00004
	A3	-0.00012	-0.00012	-0.00011
	A3	0.00096	0.00104	0.00144

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7R	(A1 * A3 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00028	0.00028	0.00028
	(A1 * A2 * !A3 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	0.00028	0.00028	0.00028
	(A1 * !A2 * !A3 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !A3 * !Y)	0.00028	0.00028	0.00028
	(!A1 * A2 * A3 * !Y)	-0.00012	-0.00011	-0.00009
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	0.00028	0.00028	0.00028
	(!A1 * A2 * !A3 * !Y)	-0.00012	-0.00011	-0.00009
	(!A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	0.00028	0.00028	0.00028
	(!A1 * !A2 * A3 * !Y)	-0.00012	-0.00011	-0.00009
	(!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7R	(A1 * A3 * !Y)	0.00012	0.00012	0.00012
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * A2 * !A3 * !Y)	0.00012	0.00012	0.00012
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * !A3 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * !A2 * !A3 * !Y)	0.00012	0.00013	0.00013
	(A1 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !A3 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * A2 * A3 * !Y)	0.00012	0.00012	0.00012
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * A3 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * A2 * !A3 * !Y)	0.00012	0.00012	0.00012
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !A3 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !A2 * A3 * !Y)	0.00011	0.00012	0.00012
	(!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * A3 * !Y)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7R	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * A3 * !Y)	0.00024	0.00024	0.00024
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * !A3 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * A3 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !A3 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A2 * A3 * !Y)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	0.00023	0.00024	0.00024
	(!A0 * A2 * !A3 * !Y)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A2 * !A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !A3 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A2 * A3 * !Y)	-0.00012	-0.00011	-0.00008
	(!A0 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7R	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00007	0.00007	0.00007
	(A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A2 * A3 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * A3 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A2 * !A3 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !A3 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !A3 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !A2 * A3 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * A3 * !Y)	-0.00024	-0.00023	-0.00023

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7R	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00007	-0.00006	-0.00007
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00026	0.00026	0.00026
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	-0.00007	-0.00007	-0.00006
	(A0 * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * A3 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A3 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * A3 * !Y)	-0.00013	-0.00012	-0.00010
	(!A0 * !A1 * A3 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	0.00025	0.00026	0.00027

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7R	(A1 * A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00007	0.00006	0.00007
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A3 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00006	0.00007	0.00007
	(A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * A3 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * A3 * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7R	(A2 * !Y)	-0.00000	-0.00000	0.00000
	(A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00036	0.00036	0.00036
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00035	0.00036	0.00036
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !Y)	0.00035	0.00036	0.00036

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X1P4H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00003	0.00003	0.00003
	(A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A2 * !Y)	-0.00036	-0.00036	-0.00035
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !Y)	-0.00036	-0.00036	-0.00035
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00036	-0.00036	-0.00035

NOR4X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X2H7R	0.00088	0.00091	0.00091	0.00099	0.01927

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X2H7R	0.00000	0.09001	0.97547

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X2H7R	A0->Y (FR)	0.05658	0.19759	0.59420
	A1->Y (FR)	0.05475	0.20056	0.62154
	A2->Y (FR)	0.04937	0.20073	0.64775
	A3->Y (FR)	0.04128	0.19234	0.63885

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X2H7R	A0->Y (RF)	0.01270	0.06430	0.25635
	A1->Y (RF)	0.01276	0.06259	0.25405
	A2->Y (RF)	0.01229	0.06013	0.25153
	A3->Y (RF)	0.01143	0.05726	0.24835

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X2H7R	A0	0.00164	0.00169	0.00190
	A0	-0.00027	-0.00027	-0.00026
	A0	0.00014	0.00014	0.00014
	A0	-0.00013	-0.00009	0.00012
	A1	0.00142	0.00147	0.00170
	A1	-0.00020	-0.00020	-0.00019
	A1	0.00014	0.00014	0.00014
	A1	-0.00008	-0.00003	0.00020
	A2	0.00119	0.00124	0.00153
	A2	-0.00013	-0.00012	-0.00009
	A2	0.00014	0.00014	0.00014
	A2	-0.00008	-0.00003	0.00025
	A3	0.00097	0.00106	0.00151
	A3	-0.00004	-0.00004	0.00000
	A3	0.00014	0.00014	0.00014
	A3	-0.00011	-0.00001	0.00043

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X2H7R	A0	-0.00012	-0.00004	0.00036
	A0	0.00026	0.00027	0.00027
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00151	0.00161	0.00202
	A1	-0.00011	-0.00004	0.00036
	A1	0.00019	0.00020	0.00020
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00129	0.00139	0.00180
	A2	-0.00010	-0.00002	0.00038
	A2	0.00009	0.00012	0.00014
	A2	-0.00014	-0.00014	-0.00013
	A2	0.00111	0.00121	0.00162
	A3	-0.00010	-0.00001	0.00047
	A3	0.00000	0.00004	0.00004
	A3	-0.00014	-0.00014	-0.00014
	A3	0.00097	0.00106	0.00155

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7R	(A1 * A3 * !Y)	-0.00015	-0.00014	-0.00012
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	0.00029	0.00029	0.00029
	(A1 * A2 * !A3 * !Y)	-0.00014	-0.00014	-0.00012
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	0.00029	0.00030	0.00030
	(A1 * !A2 * !A3 * !Y)	-0.00015	-0.00014	-0.00012
	(A1 * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !A3 * !Y)	0.00029	0.00030	0.00030
	(!A1 * A2 * A3 * !Y)	-0.00014	-0.00013	-0.00011
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	0.00029	0.00030	0.00030
	(!A1 * A2 * !A3 * !Y)	-0.00014	-0.00013	-0.00011
	(!A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	0.00029	0.00029	0.00030
	(!A1 * !A2 * A3 * !Y)	-0.00014	-0.00012	-0.00010
	(!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	0.00029	0.00030	0.00030

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7R	(A1 * A3 * !Y)	0.00014	0.00014	0.00015
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * A2 * !A3 * !Y)	0.00014	0.00014	0.00015
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !A3 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * !A3 * !Y)	0.00015	0.00015	0.00015
	(A1 * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !A3 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * A3 * !Y)	0.00014	0.00014	0.00014
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * A3 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * !A3 * !Y)	0.00014	0.00014	0.00014
	(!A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !A3 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !A2 * A3 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * A3 * !Y)	-0.00030	-0.00030	-0.00029

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7R	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * A3 * !Y)	0.00025	0.00025	0.00025
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * !A3 * !Y)	0.00025	0.00026	0.00026
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * A3 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !A3 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A2 * A3 * !Y)	-0.00015	-0.00014	-0.00012
	(!A0 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A2 * !A3 * !Y)	-0.00016	-0.00014	-0.00012
	(!A0 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !A3 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A2 * A3 * !Y)	-0.00015	-0.00013	-0.00010
	(!A0 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7R	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00008	0.00008	0.00008
	(A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00008	0.00008	0.00008
	(A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00026	-0.00025	-0.00025
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00007	0.00008	0.00008
	(A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * A3 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * !A3 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A2 * A3 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * A3 * !Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7R	(A1 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A1 * A3 * !Y)	0.00000	0.00001	0.00001
	(A1 * A3 * !Y)	0.00026	0.00026	0.00026
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * A3 * !Y)	0.00026	0.00026	0.00027
	(A0 * !A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A3 * !Y)	0.00025	0.00026	0.00026
	(!A0 * !A1 * A3 * !Y)	-0.00016	-0.00014	-0.00011
	(!A0 * !A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	0.00025	0.00026	0.00028

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7R	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00008	0.00008	0.00008
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A3 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A3 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !A1 * A3 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * A3 * !Y)	-0.00026	-0.00026	-0.00025

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7R	(A2 * !Y)	-0.00000	-0.00000	0.00000
	(A2 * !Y)	-0.00004	-0.00004	-0.00004
	(A2 * !Y)	0.00000	0.00001	0.00001
	(A2 * !Y)	0.00036	0.00036	0.00036
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00036	0.00036	0.00036
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !Y)	0.00036	0.00036	0.00036

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X2H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00004	0.00004	0.00004
	(A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A2 * !Y)	-0.00036	-0.00036	-0.00036
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !Y)	-0.00036	-0.00036	-0.00036
	(A0 * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !Y)	-0.00036	-0.00036	-0.00036

NOR4X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X3H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X3H7R	0.00157	0.00154	0.00152	0.00163	0.02973

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X3H7R	0.00000	0.14027	1.53863

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X3H7R	A0->Y (FR)	0.06164	0.20357	0.59857
	A1->Y (FR)	0.05928	0.20535	0.62364
	A2->Y (FR)	0.05206	0.20323	0.64916
	A3->Y (FR)	0.03946	0.19057	0.63681

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X3H7R	A0->Y (RF)	0.01299	0.06607	0.26065
	A1->Y (RF)	0.01307	0.06420	0.25745
	A2->Y (RF)	0.01266	0.06136	0.25406
	A3->Y (RF)	0.01150	0.05747	0.25005

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X3H7R	A0	0.00314	0.00320	0.00347
	A0	-0.00041	-0.00040	-0.00039
	A0	0.00021	0.00022	0.00022
	A0	-0.00001	0.00005	0.00032
	A1	0.00267	0.00274	0.00305
	A1	-0.00033	-0.00029	-0.00029
	A1	0.00022	0.00022	0.00022
	A1	-0.00000	0.00007	0.00038
	A2	0.00217	0.00226	0.00267
	A2	-0.00020	-0.00018	-0.00018
	A2	0.00021	0.00022	0.00022
	A2	-0.00005	0.00003	0.00044
	A3	0.00166	0.00182	0.00255
	A3	-0.00006	-0.00006	-0.00004
	A3	0.00021	0.00022	0.00022
	A3	-0.00013	0.00003	0.00075

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X3H7R	A0	-0.00020	-0.00009	0.00052
	A0	0.00039	0.00040	0.00041
	A0	-0.00022	-0.00022	-0.00021
	A0	0.00264	0.00281	0.00343
	A1	-0.00019	-0.00006	0.00054
	A1	0.00029	0.00029	0.00033
	A1	-0.00022	-0.00022	-0.00022
	A1	0.00230	0.00246	0.00307
	A2	-0.00013	-0.00001	0.00060
	A2	0.00018	0.00018	0.00025
	A2	-0.00022	-0.00022	-0.00021
	A2	0.00198	0.00214	0.00277
	A3	-0.00012	0.00003	0.00078
	A3	0.00004	0.00006	0.00008
	A3	-0.00022	-0.00021	-0.00020
	A3	0.00166	0.00180	0.00258

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7R	(A1 * A3 * !Y)	-0.00026	-0.00024	-0.00019
	(A1 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	0.00049	0.00049	0.00050
	(A1 * A2 * !A3 * !Y)	-0.00026	-0.00024	-0.00020
	(A1 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * !A3 * !Y)	0.00049	0.00049	0.00050
	(A1 * !A2 * !A3 * !Y)	-0.00027	-0.00024	-0.00019
	(A1 * !A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !A3 * !Y)	0.00049	0.00049	0.00050
	(!A1 * A2 * A3 * !Y)	-0.00025	-0.00022	-0.00017
	(!A1 * A2 * A3 * !Y)	-0.00004	-0.00004	-0.00003
	(!A1 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * A3 * !Y)	0.00049	0.00049	0.00050
	(!A1 * A2 * !A3 * !Y)	-0.00025	-0.00022	-0.00017
	(!A1 * A2 * !A3 * !Y)	-0.00004	-0.00003	-0.00002
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !A3 * !Y)	0.00049	0.00049	0.00050
	(!A1 * !A2 * A3 * !Y)	-0.00025	-0.00021	-0.00017
	(!A1 * !A2 * A3 * !Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	0.00049	0.00050	0.00050

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7R	(A1 * A3 * !Y)	0.00026	0.00026	0.00027
	(A1 * A3 * !Y)	0.00003	0.00003	0.00004
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	-0.00049	-0.00049	-0.00049
	(A1 * A2 * !A3 * !Y)	0.00026	0.00026	0.00026
	(A1 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !A3 * !Y)	-0.00049	-0.00049	-0.00049
	(A1 * !A2 * !A3 * !Y)	0.00027	0.00027	0.00027
	(A1 * !A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !A3 * !Y)	-0.00049	-0.00049	-0.00049
	(!A1 * A2 * A3 * !Y)	0.00025	0.00025	0.00025
	(!A1 * A2 * A3 * !Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * A3 * !Y)	-0.00049	-0.00049	-0.00049
	(!A1 * A2 * !A3 * !Y)	0.00025	0.00025	0.00026
	(!A1 * A2 * !A3 * !Y)	0.00002	0.00003	0.00004
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !A3 * !Y)	-0.00050	-0.00049	-0.00049
	(!A1 * !A2 * A3 * !Y)	0.00024	0.00025	0.00025
	(!A1 * !A2 * A3 * !Y)	0.00003	0.00003	0.00004
	(!A1 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * A3 * !Y)	-0.00049	-0.00049	-0.00049

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7R	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * A3 * !Y)	0.00046	0.00047	0.00047
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * !A3 * !Y)	0.00047	0.00047	0.00047
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * A3 * !Y)	0.00047	0.00047	0.00047
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00009	-0.00009	-0.00009
	(A0 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !A3 * !Y)	0.00047	0.00047	0.00047
	(!A0 * A2 * A3 * !Y)	-0.00032	-0.00030	-0.00025
	(!A0 * A2 * A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	0.00043	0.00043	0.00044
	(!A0 * A2 * !A3 * !Y)	-0.00033	-0.00030	-0.00025
	(!A0 * A2 * !A3 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !A3 * !Y)	0.00043	0.00043	0.00044
	(!A0 * !A2 * A3 * !Y)	-0.00032	-0.00028	-0.00022
	(!A0 * !A2 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	0.00043	0.00044	0.00044

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7R	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00012	0.00013	0.00013
	(A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * A3 * !Y)	-0.00047	-0.00047	-0.00046
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00012	0.00012	0.00012
	(A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !A3 * !Y)	-0.00047	-0.00047	-0.00047
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * A3 * !Y)	-0.00047	-0.00047	-0.00047
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00009	0.00009	0.00009
	(A0 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !A3 * !Y)	-0.00047	-0.00047	-0.00046
	(!A0 * A2 * A3 * !Y)	0.00032	0.00032	0.00032
	(!A0 * A2 * A3 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * A3 * !Y)	-0.00043	-0.00043	-0.00042
	(!A0 * A2 * !A3 * !Y)	0.00033	0.00033	0.00033
	(!A0 * A2 * !A3 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !A3 * !Y)	-0.00043	-0.00043	-0.00042
	(!A0 * !A2 * A3 * !Y)	0.00031	0.00032	0.00032
	(!A0 * !A2 * A3 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * A3 * !Y)	-0.00043	-0.00043	-0.00043

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7R	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00012	-0.00012	-0.00012
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	0.00047	0.00047	0.00048
	(A1 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00009	-0.00009	-0.00008
	(A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00046	0.00047	0.00047
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * A3 * !Y)	0.00046	0.00047	0.00048
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A3 * !Y)	0.00047	0.00047	0.00047
	(!A0 * !A1 * A3 * !Y)	-0.00032	-0.00029	-0.00023
	(!A0 * !A1 * A3 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	0.00042	0.00044	0.00047

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7R	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00012	0.00012	0.00012
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	-0.00047	-0.00047	-0.00046
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00009	0.00009	0.00009
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A3 * !Y)	-0.00047	-0.00046	-0.00046
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * A3 * !Y)	-0.00046	-0.00046	-0.00046
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A3 * !Y)	-0.00047	-0.00046	-0.00046
	(!A0 * !A1 * A3 * !Y)	0.00033	0.00033	0.00033
	(!A0 * !A1 * A3 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * A3 * !Y)	-0.00042	-0.00042	-0.00041

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A2 * !Y)	0.00001	0.00001	0.00001
	(A2 * !Y)	0.00061	0.00061	0.00062
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00061	0.00061	0.00062
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !Y)	0.00061	0.00061	0.00062

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X3H7R	(A2 * !Y)	-0.00000	0.00000	0.00000
	(A2 * !Y)	0.00005	0.00005	0.00005
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	-0.00062	-0.00061	-0.00061
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00005	0.00005	0.00005
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00061	-0.00061	-0.00061
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !Y)	-0.00061	-0.00061	-0.00061

NOR4X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X4H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X4H7R	0.00218	0.00215	0.00219	0.00224	0.03990

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X4H7R	0.00000	0.19150	2.12294

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X4H7R	A0->Y (FR)	0.06175	0.20378	0.59829
	A1->Y (FR)	0.05897	0.20501	0.62399
	A2->Y (FR)	0.05204	0.20285	0.64844
	A3->Y (FR)	0.03868	0.18990	0.63805

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X4H7R	A0->Y (RF)	0.01272	0.06549	0.25887
	A1->Y (RF)	0.01288	0.06345	0.25599
	A2->Y (RF)	0.01257	0.06058	0.25279
	A3->Y (RF)	0.01120	0.05636	0.24756

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X4H7R	A0	0.00440	0.00449	0.00488
	A0	-0.00054	-0.00054	-0.00053
	A0	0.00029	0.00029	0.00029
	A0	-0.00010	-0.00000	0.00037
	A1	0.00377	0.00386	0.00431
	A1	-0.00040	-0.00039	-0.00037
	A1	0.00029	0.00029	0.00029
	A1	-0.00006	0.00005	0.00048
	A2	0.00308	0.00320	0.00380
	A2	-0.00027	-0.00024	-0.00022
	A2	0.00029	0.00029	0.00029
	A2	-0.00011	0.00001	0.00059
	A3	0.00234	0.00257	0.00359
	A3	-0.00009	-0.00008	-0.00006
	A3	0.00029	0.00029	0.00029
	A3	-0.00017	0.00006	0.00107

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X4H7R	A0	-0.00028	-0.00013	0.00073
	A0	0.00053	0.00054	0.00054
	A0	-0.00029	-0.00029	-0.00029
	A0	0.00375	0.00400	0.00485
	A1	-0.00030	-0.00014	0.00070
	A1	0.00037	0.00039	0.00040
	A1	-0.00029	-0.00029	-0.00029
	A1	0.00322	0.00345	0.00430
	A2	-0.00025	-0.00008	0.00077
	A2	0.00022	0.00024	0.00032
	A2	-0.00029	-0.00029	-0.00029
	A2	0.00279	0.00300	0.00387
	A3	-0.00025	-0.00004	0.00103
	A3	0.00006	0.00008	0.00011
	A3	-0.00029	-0.00029	-0.00028
	A3	0.00224	0.00245	0.00354

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7R	(A1 * A3 * !Y)	-0.00038	-0.00034	-0.00028
	(A1 * A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * A3 * !Y)	0.00001	0.00001	0.00002
	(A1 * A3 * !Y)	0.00072	0.00073	0.00073
	(A1 * A2 * !A3 * !Y)	-0.00037	-0.00034	-0.00028
	(A1 * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00002
	(A1 * A2 * !A3 * !Y)	0.00073	0.00073	0.00074
	(A1 * !A2 * !A3 * !Y)	-0.00038	-0.00034	-0.00028
	(A1 * !A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * !A3 * !Y)	0.00073	0.00073	0.00074
	(!A1 * A2 * A3 * !Y)	-0.00036	-0.00031	-0.00024
	(!A1 * A2 * A3 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * A3 * !Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * A3 * !Y)	0.00073	0.00073	0.00074
	(!A1 * A2 * !A3 * !Y)	-0.00036	-0.00031	-0.00024
	(!A1 * A2 * !A3 * !Y)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !A3 * !Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * !A3 * !Y)	0.00073	0.00073	0.00074
	(!A1 * !A2 * A3 * !Y)	-0.00035	-0.00030	-0.00023
	(!A1 * !A2 * A3 * !Y)	-0.00006	-0.00005	-0.00004
	(!A1 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * A3 * !Y)	0.00073	0.00073	0.00074

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7R	(A1 * A3 * !Y)	0.00037	0.00037	0.00038
	(A1 * A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	-0.00073	-0.00072	-0.00072
	(A1 * A2 * !A3 * !Y)	0.00037	0.00037	0.00038
	(A1 * A2 * !A3 * !Y)	0.00005	0.00005	0.00005
	(A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !A3 * !Y)	-0.00073	-0.00072	-0.00072
	(A1 * !A2 * !A3 * !Y)	0.00039	0.00039	0.00039
	(A1 * !A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(A1 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !A3 * !Y)	-0.00073	-0.00072	-0.00072
	(!A1 * A2 * A3 * !Y)	0.00035	0.00035	0.00036
	(!A1 * A2 * A3 * !Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * A3 * !Y)	-0.00073	-0.00072	-0.00072
	(!A1 * A2 * !A3 * !Y)	0.00035	0.00036	0.00036
	(!A1 * A2 * !A3 * !Y)	0.00004	0.00005	0.00005
	(!A1 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !A3 * !Y)	-0.00073	-0.00073	-0.00072
	(!A1 * !A2 * A3 * !Y)	0.00034	0.00035	0.00035
	(!A1 * !A2 * A3 * !Y)	0.00004	0.00005	0.00006
	(!A1 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * A3 * !Y)	-0.00073	-0.00072	-0.00072

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7R	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00018	-0.00017	-0.00017
	(A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00002
	(A0 * A2 * A3 * !Y)	0.00067	0.00068	0.00068
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * !A3 * !Y)	0.00067	0.00068	0.00068
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * A3 * !Y)	0.00067	0.00068	0.00068
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !A2 * !A3 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A2 * !A3 * !Y)	0.00068	0.00068	0.00068
	(!A0 * A2 * A3 * !Y)	-0.00048	-0.00044	-0.00037
	(!A0 * A2 * A3 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * A3 * !Y)	0.00063	0.00064	0.00064
	(!A0 * A2 * !A3 * !Y)	-0.00048	-0.00043	-0.00036
	(!A0 * A2 * !A3 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !A3 * !Y)	0.00063	0.00064	0.00064
	(!A0 * !A2 * A3 * !Y)	-0.00046	-0.00040	-0.00032
	(!A0 * !A2 * A3 * !Y)	-0.00007	-0.00005	-0.00004
	(!A0 * !A2 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * A3 * !Y)	0.00063	0.00064	0.00065

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7R	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00017	0.00017	0.00018
	(A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * A3 * !Y)	-0.00068	-0.00068	-0.00067
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00017	0.00017	0.00017
	(A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !A3 * !Y)	-0.00068	-0.00068	-0.00067
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * A3 * !Y)	-0.00068	-0.00067	-0.00067
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00013	0.00013	0.00013
	(A0 * !A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !A3 * !Y)	-0.00068	-0.00067	-0.00067
	(!A0 * A2 * A3 * !Y)	0.00047	0.00047	0.00048
	(!A0 * A2 * A3 * !Y)	0.00004	0.00004	0.00005
	(!A0 * A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * A3 * !Y)	-0.00063	-0.00063	-0.00062
	(!A0 * A2 * !A3 * !Y)	0.00048	0.00049	0.00049
	(!A0 * A2 * !A3 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !A3 * !Y)	-0.00063	-0.00063	-0.00062
	(!A0 * !A2 * A3 * !Y)	0.00046	0.00046	0.00046
	(!A0 * !A2 * A3 * !Y)	0.00004	0.00005	0.00007
	(!A0 * !A2 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * A3 * !Y)	-0.00063	-0.00063	-0.00062

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7R	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00017	-0.00017	-0.00017
	(A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * A3 * !Y)	0.00068	0.00069	0.00069
	(A1 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00012	-0.00012	-0.00012
	(A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A3 * !Y)	0.00067	0.00068	0.00068
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * A3 * !Y)	0.00068	0.00068	0.00070
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !A1 * !A3 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A3 * !Y)	0.00067	0.00068	0.00068
	(!A0 * !A1 * A3 * !Y)	-0.00047	-0.00042	-0.00033
	(!A0 * !A1 * A3 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * A3 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * A3 * !Y)	0.00063	0.00066	0.00071

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7R	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00017	0.00017	0.00017
	(A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A3 * !Y)	-0.00068	-0.00067	-0.00067
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00012	0.00013	0.00013
	(A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A3 * !Y)	-0.00068	-0.00067	-0.00067
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * A3 * !Y)	-0.00067	-0.00067	-0.00067
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * !A3 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A3 * !Y)	-0.00068	-0.00067	-0.00067
	(!A0 * !A1 * A3 * !Y)	0.00048	0.00048	0.00049
	(!A0 * !A1 * A3 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * A3 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * A3 * !Y)	-0.00063	-0.00062	-0.00062

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7R	(A2 * !Y)	-0.00000	-0.00000	0.00000
	(A2 * !Y)	-0.00008	-0.00008	-0.00008
	(A2 * !Y)	0.00001	0.00001	0.00002
	(A2 * !Y)	0.00085	0.00085	0.00085
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * !Y)	0.00085	0.00085	0.00085
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * !A2 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !Y)	0.00084	0.00085	0.00085

Passive power(pJ) for A3 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X4H7R	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00008	0.00009	0.00009
	(A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A2 * !Y)	-0.00085	-0.00085	-0.00084
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00008	0.00008	0.00008
	(A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !Y)	-0.00085	-0.00085	-0.00084
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !Y)	-0.00085	-0.00085	-0.00084

NOR4X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

NOR4, In: A, B, C, D, Out: Y

Truth Table

INPUT				OUTPUT
A0	A1	A2	A3	Y
0	0	0	0	1
0	0	x	1	0
0	x	1	x	0
x	1	x	x	0
1	x	x	x	0

Footprint

Cell Name	Area
NOR4X6H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	A3	Y
NOR4X6H7R	0.00265	0.00266	0.00271	0.00277	0.05690

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
NOR4X6H7R	0.00000	0.27004	2.92641

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X6H7R	A0->Y (FR)	0.05281	0.19622	0.59865
	A1->Y (FR)	0.05022	0.19767	0.62310
	A2->Y (FR)	0.04370	0.19586	0.64850
	A3->Y (FR)	0.03179	0.18413	0.63767

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
NOR4X6H7R	A0->Y (RF)	0.01123	0.06250	0.25564
	A1->Y (RF)	0.01138	0.06049	0.25301
	A2->Y (RF)	0.01106	0.05763	0.24893
	A3->Y (RF)	0.00400	0.05371	0.24616

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X6H7R	A0	0.00540	0.00553	0.00614
	A0	-0.00080	-0.00079	-0.00078
	A0	0.00043	0.00043	0.00043
	A0	-0.00030	-0.00017	0.00042
	A1	0.00460	0.00474	0.00544
	A1	-0.00059	-0.00058	-0.00056
	A1	0.00042	0.00043	0.00043
	A1	-0.00023	-0.00009	0.00060
	A2	0.00372	0.00388	0.00479
	A2	-0.00039	-0.00036	-0.00035
	A2	0.00043	0.00043	0.00043
	A2	-0.00029	-0.00012	0.00077
	A3	0.00280	0.00310	0.00459
	A3	-0.00013	-0.00012	-0.00003
	A3	0.00042	0.00043	0.00043
	A3	-0.00035	-0.00004	0.00143

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
NOR4X6H7R	A0	-0.00038	-0.00017	0.00106
	A0	0.00078	0.00079	0.00080
	A0	-0.00043	-0.00043	-0.00043
	A0	0.00475	0.00508	0.00630
	A1	-0.00040	-0.00018	0.00102
	A1	0.00056	0.00058	0.00059
	A1	-0.00043	-0.00043	-0.00042
	A1	0.00404	0.00437	0.00559
	A2	-0.00036	-0.00011	0.00111
	A2	0.00035	0.00036	0.00046
	A2	-0.00043	-0.00043	-0.00043
	A2	0.00347	0.00376	0.00501
	A3	-0.00034	-0.00003	0.00152
	A3	0.00003	0.00012	0.00017
	A3	-0.00043	-0.00042	-0.00041
	A3	0.00277	0.00309	0.00468

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7R	(A1 * A3 * !Y)	-0.00050	-0.00045	-0.00038
	(A1 * A3 * !Y)	-0.00007	-0.00007	-0.00006
	(A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * A3 * !Y)	0.00081	0.00081	0.00082
	(A1 * A2 * !A3 * !Y)	-0.00050	-0.00045	-0.00038
	(A1 * A2 * !A3 * !Y)	-0.00007	-0.00007	-0.00006
	(A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00003
	(A1 * A2 * !A3 * !Y)	0.00080	0.00081	0.00082
	(A1 * !A2 * !A3 * !Y)	-0.00050	-0.00045	-0.00038
	(A1 * !A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !A3 * !Y)	0.00081	0.00081	0.00082
	(!A1 * A2 * A3 * !Y)	-0.00047	-0.00042	-0.00033
	(!A1 * A2 * A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1 * A2 * A3 * !Y)	0.00002	0.00002	0.00003
	(!A1 * A2 * A3 * !Y)	0.00081	0.00081	0.00082
	(!A1 * A2 * !A3 * !Y)	-0.00048	-0.00042	-0.00033
	(!A1 * A2 * !A3 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !A3 * !Y)	0.00081	0.00082	0.00082
	(!A1 * !A2 * A3 * !Y)	-0.00047	-0.00041	-0.00032
	(!A1 * !A2 * A3 * !Y)	-0.00007	-0.00007	-0.00004
	(!A1 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !A2 * A3 * !Y)	0.00081	0.00082	0.00082

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7R	(A1 * A3 * !Y)	0.00048	0.00049	0.00050
	(A1 * A3 * !Y)	0.00007	0.00007	0.00007
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * A3 * !Y)	-0.00081	-0.00081	-0.00081
	(A1 * A2 * !A3 * !Y)	0.00049	0.00049	0.00050
	(A1 * A2 * !A3 * !Y)	0.00007	0.00007	0.00007
	(A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * !A3 * !Y)	-0.00081	-0.00081	-0.00080
	(A1 * !A2 * !A3 * !Y)	0.00051	0.00052	0.00052
	(A1 * !A2 * !A3 * !Y)	0.00006	0.00006	0.00006
	(A1 * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !A3 * !Y)	-0.00081	-0.00081	-0.00081
	(!A1 * A2 * A3 * !Y)	0.00047	0.00047	0.00047
	(!A1 * A2 * A3 * !Y)	0.00007	0.00007	0.00007
	(!A1 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * A3 * !Y)	-0.00082	-0.00081	-0.00081
	(!A1 * A2 * !A3 * !Y)	0.00048	0.00048	0.00048
	(!A1 * A2 * !A3 * !Y)	0.00007	0.00007	0.00007
	(!A1 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !A3 * !Y)	-0.00081	-0.00081	-0.00081
	(!A1 * !A2 * A3 * !Y)	0.00046	0.00046	0.00047
	(!A1 * !A2 * A3 * !Y)	0.00004	0.00007	0.00007
	(!A1 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !A2 * A3 * !Y)	-0.00082	-0.00081	-0.00081

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7R	(A0 * A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * A3 * !Y)	-0.00026	-0.00025	-0.00025
	(A0 * A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A0 * A2 * A3 * !Y)	0.00075	0.00075	0.00076
	(A0 * A2 * !A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !A3 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * A2 * !A3 * !Y)	0.00002	0.00002	0.00003
	(A0 * A2 * !A3 * !Y)	0.00075	0.00076	0.00076
	(A0 * !A2 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * A3 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * A3 * !Y)	0.00075	0.00075	0.00075
	(A0 * !A2 * !A3 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !A3 * !Y)	0.00075	0.00076	0.00076
	(!A0 * A2 * A3 * !Y)	-0.00059	-0.00054	-0.00046
	(!A0 * A2 * A3 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * A2 * A3 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A2 * A3 * !Y)	0.00072	0.00072	0.00073
	(!A0 * A2 * !A3 * !Y)	-0.00060	-0.00054	-0.00045
	(!A0 * A2 * !A3 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A2 * !A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !A3 * !Y)	0.00072	0.00072	0.00073
	(!A0 * !A2 * A3 * !Y)	-0.00058	-0.00050	-0.00039
	(!A0 * !A2 * A3 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A2 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A2 * A3 * !Y)	0.00072	0.00073	0.00074

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7R	(A0 * A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * A3 * !Y)	0.00025	0.00025	0.00026
	(A0 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * A2 * A3 * !Y)	-0.00076	-0.00075	-0.00075
	(A0 * A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !A3 * !Y)	0.00025	0.00025	0.00025
	(A0 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * !A3 * !Y)	-0.00076	-0.00076	-0.00075
	(A0 * !A2 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * A3 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * A3 * !Y)	-0.00075	-0.00075	-0.00075
	(A0 * !A2 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !A3 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * !A3 * !Y)	-0.00075	-0.00075	-0.00075
	(!A0 * A2 * A3 * !Y)	0.00058	0.00059	0.00059
	(!A0 * A2 * A3 * !Y)	0.00006	0.00006	0.00007
	(!A0 * A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * A3 * !Y)	-0.00072	-0.00072	-0.00071
	(!A0 * A2 * !A3 * !Y)	0.00060	0.00060	0.00061
	(!A0 * A2 * !A3 * !Y)	0.00005	0.00006	0.00006
	(!A0 * A2 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !A3 * !Y)	-0.00072	-0.00072	-0.00071
	(!A0 * !A2 * A3 * !Y)	0.00057	0.00057	0.00058
	(!A0 * !A2 * A3 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A2 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * A3 * !Y)	-0.00073	-0.00072	-0.00072

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7R	(A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A3 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * A3 * !Y)	0.00001	0.00002	0.00002
	(A1 * A3 * !Y)	0.00077	0.00077	0.00078
	(A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	-0.00018	-0.00017	-0.00017
	(A1 * !A3 * !Y)	0.00002	0.00002	0.00003
	(A1 * !A3 * !Y)	0.00076	0.00076	0.00076
	(A0 * !A1 * A3 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * A3 * !Y)	-0.00025	-0.00025	-0.00024
	(A0 * !A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * A3 * !Y)	0.00076	0.00077	0.00079
	(A0 * !A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * !A3 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A3 * !Y)	0.00076	0.00076	0.00076
	(!A0 * !A1 * A3 * !Y)	-0.00059	-0.00052	-0.00042
	(!A0 * !A1 * A3 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * A3 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * A3 * !Y)	0.00072	0.00076	0.00082

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7R	(A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * A3 * !Y)	0.00024	0.00024	0.00024
	(A1 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * A3 * !Y)	-0.00076	-0.00076	-0.00075
	(A1 * !A3 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A3 * !Y)	0.00018	0.00018	0.00018
	(A1 * !A3 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A3 * !Y)	-0.00076	-0.00076	-0.00076
	(A0 * !A1 * A3 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * A3 * !Y)	0.00024	0.00025	0.00025
	(A0 * !A1 * A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * A3 * !Y)	-0.00076	-0.00075	-0.00075
	(A0 * !A1 * !A3 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A3 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * !A3 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !A3 * !Y)	-0.00076	-0.00075	-0.00073
	(!A0 * !A1 * A3 * !Y)	0.00060	0.00061	0.00061
	(!A0 * !A1 * A3 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * A3 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * A3 * !Y)	-0.00072	-0.00072	-0.00071

Passive power(pJ) for A3 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7R	(A2 * !Y)	-0.00000	-0.00000	0.00000
	(A2 * !Y)	-0.00012	-0.00011	-0.00011
	(A2 * !Y)	0.00002	0.00002	0.00002
	(A2 * !Y)	0.00099	0.00100	0.00100
	(A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * !Y)	0.00099	0.00099	0.00100
	(A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * !A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * !Y)	0.00098	0.00099	0.00099

Passive power(pJ) for A3 falling (conditional):

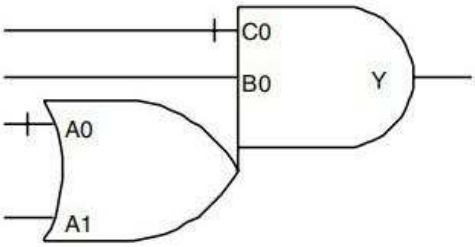
Cell Name	When	Power(pJ)		
		min	avg	max
NOR4X6H7R	(A2 * !Y)	0.00000	0.00000	0.00000
	(A2 * !Y)	0.00012	0.00012	0.00012
	(A2 * !Y)	-0.00002	-0.00002	-0.00001
	(A2 * !Y)	-0.00099	-0.00099	-0.00099
	(A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !Y)	0.00012	0.00012	0.00012
	(A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !Y)	-0.00100	-0.00099	-0.00099
	(A0 * !A1 * !A2 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !Y)	0.00011	0.00012	0.00012
	(A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * !Y)	-0.00099	-0.00099	-0.00098

OA211X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X0P5H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X0P5H7R	0.00071	0.00073	0.00067	0.00078	0.04253

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X0P5H7R	0.00000	0.14257	0.27294

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X0P5H7R	A0->Y (RR)	0.06771	0.21363	0.56754
	A1->Y (RR)	0.06378	0.20758	0.55858
	B0->Y (RR)	0.06214	0.20986	0.57070
	C0->Y (RR)	0.06061	0.20690	0.56394

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X0P5H7R	A0->Y (FF)	0.06923	0.19313	0.49133
	A1->Y (FF)	0.06623	0.19296	0.49528
	B0->Y (FF)	0.03882	0.15636	0.43905
	C0->Y (FF)	0.03779	0.15352	0.43437

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X0P5H7R	A0	0.00037	0.00042	0.00052
	A0	0.00009	0.00009	0.00009
	A0	-0.00009	-0.00009	-0.00006
	A0	0.00155	0.00161	0.00171
	A1	0.00036	0.00042	0.00057
	A1	0.00005	0.00005	0.00005
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00141	0.00147	0.00159
	B0	0.00037	0.00044	0.00066
	B0	0.00009	0.00009	0.00009
	B0	-0.00004	-0.00004	-0.00001
	B0	0.00126	0.00134	0.00153
	C0	0.00036	0.00046	0.00077
	C0	0.00009	0.00009	0.00009
	C0	0.00000	0.00000	0.00003
	C0	0.00119	0.00129	0.00157

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X0P5H7R	A0	0.00162	0.00168	0.00184
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00009	0.00009	0.00009
	A0	0.00045	0.00051	0.00067
	A1	0.00148	0.00157	0.00183
	A1	-0.00005	-0.00005	-0.00003
	A1	0.00008	0.00009	0.00009
	A1	0.00047	0.00056	0.00083
	B0	0.00133	0.00144	0.00176
	B0	-0.00005	-0.00005	-0.00003
	B0	0.00004	0.00004	0.00005
	B0	0.00042	0.00052	0.00086
	C0	0.00127	0.00138	0.00172
	C0	-0.00005	-0.00005	-0.00005
	C0	-0.00000	-0.00000	0.00000
	C0	0.00041	0.00053	0.00088

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7R	(A1 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00023	0.00023	0.00024
	(A1 * !B0 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00023	0.00023	0.00024
	(!A1 * B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7R	(A1 * B0 * C0 * Y)	0.00008	0.00009	0.00009
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00022
	(A1 * !B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00013
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00016
	(!A1 * !B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7R	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00025	0.00026	0.00026
	(A0 * B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	0.00018	0.00019	0.00019
	(A0 * !B0 * C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00018	0.00019	0.00019
	(A0 * !B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7R	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * !C0 * !Y)	0.00012	0.00013	0.00013
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !B0 * C0 * !Y)	0.00012	0.00013	0.00013
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !B0 * !C0 * !Y)	0.00012	0.00013	0.00013
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7R	(A1 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !C0 * !Y)	-0.00013	-0.00012	-0.00012
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A0 * !A1 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7R	(A1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * !A1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !A1 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7R	(A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	0.00008	0.00009	0.00009
	(!A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

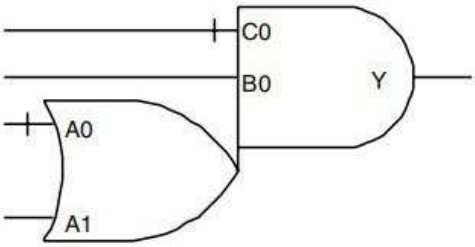
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P5H7R	(A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008

OA211X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X0P7H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X0P7H7R	0.00070	0.00072	0.00067	0.00078	0.04817

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X0P7H7R	0.00000	0.15155	0.29062

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X0P7H7R	A0->Y (RR)	0.06698	0.21330	0.56783
	A1->Y (RR)	0.06286	0.20724	0.55903
	B0->Y (RR)	0.06132	0.20966	0.57077
	C0->Y (RR)	0.05978	0.20675	0.56405

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X0P7H7R	A0->Y (FF)	0.06849	0.19295	0.49153
	A1->Y (FF)	0.06542	0.19280	0.49556
	B0->Y (FF)	0.03798	0.15593	0.43909
	C0->Y (FF)	0.03692	0.15311	0.43432

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X0P7H7R	A0	0.00038	0.00043	0.00054
	A0	0.00008	0.00009	0.00009
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00157	0.00162	0.00172
	A1	0.00038	0.00044	0.00059
	A1	0.00004	0.00005	0.00005
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00142	0.00148	0.00160
	B0	0.00038	0.00046	0.00069
	B0	0.00009	0.00009	0.00009
	B0	-0.00003	-0.00003	-0.00001
	B0	0.00127	0.00135	0.00155
	C0	0.00037	0.00047	0.00079
	C0	0.00008	0.00009	0.00009
	C0	0.00000	0.00000	0.00003
	C0	0.00120	0.00130	0.00159

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X0P7H7R	**A0**	0.00164	0.00170	0.00187
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00008	0.00008	0.00008
	A0	0.00048	0.00053	0.00071
	A1	0.00150	0.00159	0.00187
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00008	0.00008	0.00008
	A1	0.00050	0.00058	0.00086
	B0	0.00135	0.00146	0.00179
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00003	0.00003	0.00004
	B0	0.00045	0.00055	0.00090
	C0	0.00128	0.00140	0.00175
	C0	-0.00005	-0.00005	-0.00004
	C0	-0.00000	-0.00000	0.00000
	C0	0.00044	0.00055	0.00092

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7R	(A1 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * C0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7R	(A1 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A1 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00021	-0.00020	-0.00018
	(!A1 * !B0 * !C0 * !Y)	0.00012	0.00013	0.00013
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7R	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00025	0.00026	0.00026
	(A0 * B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * C0 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7R	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00013
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7R	(A1 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7R	(A1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * !A1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !A1 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7R	(A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

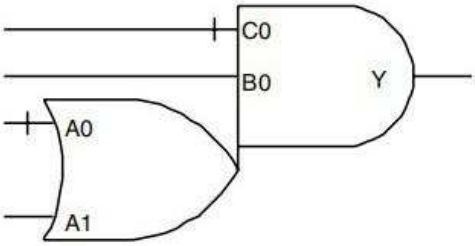
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X0P7H7R	(A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008

OA211X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X1H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X1H7R	0.00071	0.00072	0.00067	0.00078	0.05743

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X1H7R	0.00000	0.16501	0.31483

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X1H7R	A0->Y (RR)	0.06654	0.21396	0.57008
	A1->Y (RR)	0.06240	0.20787	0.56073
	B0->Y (RR)	0.06080	0.21033	0.57303
	C0->Y (RR)	0.05929	0.20749	0.56708

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X1H7R	A0->Y (FF)	0.06851	0.19573	0.49996
	A1->Y (FF)	0.06534	0.19557	0.50452
	B0->Y (FF)	0.03747	0.15800	0.44703
	C0->Y (FF)	0.03646	0.15522	0.44224

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X1H7R	A0	0.00042	0.00047	0.00058
	A0	0.00008	0.00008	0.00008
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00161	0.00166	0.00177
	A1	0.00042	0.00048	0.00061
	A1	0.00004	0.00004	0.00004
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00146	0.00152	0.00165
	B0	0.00042	0.00050	0.00074
	B0	0.00008	0.00008	0.00008
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00131	0.00138	0.00159
	C0	0.00041	0.00051	0.00085
	C0	0.00008	0.00008	0.00008
	C0	0.00000	0.00001	0.00002
	C0	0.00124	0.00133	0.00164

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X1H7R	A0	0.00168	0.00174	0.00192
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00008	0.00008	0.00008
	A0	0.00052	0.00058	0.00076
	A1	0.00153	0.00162	0.00192
	A1	-0.00004	-0.00004	-0.00002
	A1	0.00008	0.00008	0.00008
	A1	0.00054	0.00063	0.00093
	B0	0.00138	0.00149	0.00184
	B0	-0.00004	-0.00004	-0.00001
	B0	0.00003	0.00003	0.00003
	B0	0.00049	0.00060	0.00095
	C0	0.00132	0.00143	0.00180
	C0	-0.00004	-0.00004	-0.00003
	C0	-0.00001	-0.00001	0.00000
	C0	0.00048	0.00060	0.00097

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7R	(A1 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00026	0.00026	0.00027
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * C0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7R	(A1 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A1 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00021	-0.00020	-0.00018
	(!A1 * !B0 * !C0 * !Y)	0.00012	0.00013	0.00013
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7R	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * C0 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7R	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7R	(A1 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7R	(A1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * !A1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !A1 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7R	(A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

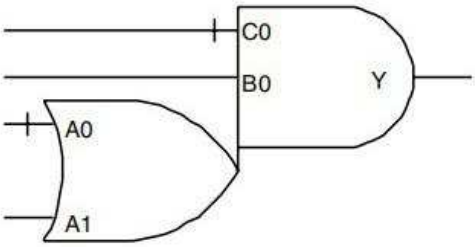
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1H7R	(A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008

OA211X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X1P4H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X1P4H7R	0.00072	0.00073	0.00067	0.00078	0.06555

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X1P4H7R	0.00000	0.17730	0.33883

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X1P4H7R	A0->Y (RR)	0.06651	0.21471	0.57260
	A1->Y (RR)	0.06231	0.20857	0.56260
	B0->Y (RR)	0.06070	0.21112	0.57528
	C0->Y (RR)	0.05915	0.20827	0.56896

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X1P4H7R	A0->Y (FF)	0.06851	0.19644	0.50145
	A1->Y (FF)	0.06533	0.19629	0.50608
	B0->Y (FF)	0.03708	0.15818	0.44792
	C0->Y (FF)	0.03608	0.15541	0.44303

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X1P4H7R	A0	0.00046	0.00051	0.00065
	A0	0.00007	0.00008	0.00008
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00165	0.00170	0.00182
	A1	0.00046	0.00052	0.00066
	A1	0.00003	0.00003	0.00004
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00149	0.00155	0.00169
	B0	0.00046	0.00054	0.00078
	B0	0.00008	0.00008	0.00008
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00135	0.00142	0.00164
	C0	0.00045	0.00056	0.00091
	C0	0.00008	0.00008	0.00008
	C0	0.00001	0.00001	0.00002
	C0	0.00127	0.00137	0.00169

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X1P4H7R	A0	0.00171	0.00177	0.00196
	A0	-0.00008	-0.00008	-0.00007
	A0	0.00008	0.00008	0.00008
	A0	0.00055	0.00061	0.00081
	A1	0.00156	0.00165	0.00198
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00008	0.00008	0.00008
	A1	0.00058	0.00066	0.00099
	B0	0.00141	0.00152	0.00189
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00003	0.00003	0.00003
	B0	0.00052	0.00064	0.00100
	C0	0.00134	0.00146	0.00185
	C0	-0.00004	-0.00003	-0.00002
	C0	-0.00001	-0.00001	-0.00000
	C0	0.00052	0.00063	0.00102

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7R	(A1 * B0 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00026	0.00027	0.00027
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7R	(A1 * B0 * C0 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * !B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A1 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00021	-0.00020	-0.00018
	(!A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7R	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * C0 * !Y)	-0.00012	-0.00012	-0.00011
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !C0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7R	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * !C0 * !Y)	0.00012	0.00013	0.00013
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * !C0 * !Y)	0.00012	0.00013	0.00013
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00013
	(!A0 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7R	(A1 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !C0 * !Y)	-0.00012	-0.00013	-0.00012
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7R	(A1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * !A1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !A1 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7R	(A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	0.00008	0.00008	0.00008
	(!A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

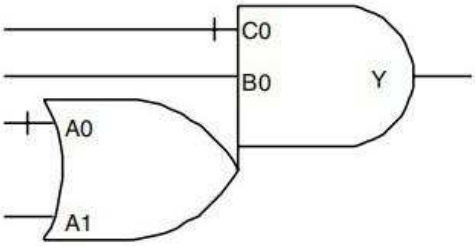
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X1P4H7R	(A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008

OA211X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X2H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X2H7R	0.00063	0.00072	0.00068	0.00076	0.08473

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X2H7R	0.00000	0.20471	0.41311

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X2H7R	A0->Y (RR)	0.07152	0.22334	0.58737
	A1->Y (RR)	0.06858	0.21875	0.57897
	B0->Y (RR)	0.06803	0.22261	0.59404
	C0->Y (RR)	0.06600	0.21953	0.58720

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X2H7R	A0->Y (FF)	0.07325	0.20427	0.51250
	A1->Y (FF)	0.07221	0.20608	0.51962
	B0->Y (FF)	0.04118	0.16480	0.45788
	C0->Y (FF)	0.03994	0.16192	0.45277

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X2H7R	A0	0.00074	0.00080	0.00099
	A0	0.00007	0.00007	0.00007
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00181	0.00189	0.00207
	A1	0.00074	0.00081	0.00099
	A1	0.00002	0.00003	0.00003
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00170	0.00177	0.00195
	B0	0.00073	0.00082	0.00111
	B0	0.00007	0.00007	0.00007
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00155	0.00164	0.00192
	C0	0.00072	0.00083	0.00127
	C0	0.00007	0.00007	0.00008
	C0	0.00001	0.00002	0.00006
	C0	0.00147	0.00158	0.00199

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X2H7R	A0	0.00191	0.00199	0.00225
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00007	0.00007	0.00007
	A0	0.00086	0.00093	0.00120
	A1	0.00180	0.00191	0.00233
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00007	0.00007	0.00007
	A1	0.00089	0.00099	0.00141
	B0	0.00166	0.00179	0.00222
	B0	-0.00003	-0.00003	-0.00000
	B0	0.00002	0.00002	0.00003
	B0	0.00084	0.00097	0.00140
	C0	0.00159	0.00172	0.00216
	C0	-0.00003	-0.00003	-0.00002
	C0	-0.00002	-0.00002	-0.00000
	C0	0.00084	0.00097	0.00141

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7R	(A1 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * C0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7R	(A1 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00023
	(A1 * B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * !B0 * !Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * B0 * !C0 * !Y)	0.00009	0.00009	0.00010
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00018
	(!A1 * !B0 * C0 * !Y)	0.00009	0.00009	0.00009
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * !Y)	-0.00022	-0.00020	-0.00018
	(!A1 * !B0 * !C0 * !Y)	0.00009	0.00009	0.00009
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7R	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * !C0 * !Y)	-0.00010	-0.00010	-0.00009
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * C0 * !Y)	-0.00010	-0.00010	-0.00009
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * !C0 * !Y)	-0.00010	-0.00010	-0.00009
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7R	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00020
	(A0 * !B0 * C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	-0.00021	-0.00021	-0.00020
	(A0 * !B0 * !C0 * !Y)	0.00010	0.00010	0.00010
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7R	(A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * C0 * !Y)	-0.00014	-0.00013	-0.00013
	(!A0 * !A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7R	(A1 * !C0 * !Y)	0.00013	0.00014	0.00014
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !C0 * !Y)	-0.00017	-0.00016	-0.00015
	(A0 * !A1 * !C0 * !Y)	0.00013	0.00014	0.00014
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * C0 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7R	(A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	0.00007	0.00007	0.00008
	(!A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

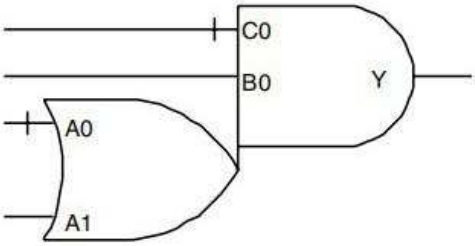
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X2H7R	(A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00008	-0.00008	-0.00007

OA211X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X3H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X3H7R	0.00072	0.00082	0.00079	0.00086	0.12035

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X3H7R	0.00000	0.28403	0.57145

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X3H7R	A0->Y (RR)	0.06410	0.21553	0.57851
	A1->Y (RR)	0.06074	0.21037	0.57047
	B0->Y (RR)	0.06127	0.21585	0.58687
	C0->Y (RR)	0.05874	0.21190	0.57938

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X3H7R	A0->Y (FF)	0.06491	0.19553	0.50234
	A1->Y (FF)	0.06320	0.19618	0.50666
	B0->Y (FF)	0.03627	0.15962	0.45150
	C0->Y (FF)	0.03484	0.15654	0.44682

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X3H7R	A0	0.00089	0.00097	0.00124
	A0	0.00009	0.00009	0.00009
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00221	0.00229	0.00255
	A1	0.00089	0.00098	0.00125
	A1	0.00003	0.00003	0.00004
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00203	0.00212	0.00239
	B0	0.00089	0.00099	0.00139
	B0	0.00009	0.00009	0.00009
	B0	-0.00002	-0.00002	0.00001
	B0	0.00185	0.00199	0.00237
	C0	0.00088	0.00102	0.00161
	C0	0.00009	0.00009	0.00009
	C0	0.00002	0.00003	0.00003
	C0	0.00176	0.00190	0.00247

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X3H7R	A0	0.00229	0.00239	0.00275
	A0	-0.00009	-0.00009	-0.00006
	A0	0.00009	0.00009	0.00009
	A0	0.00101	0.00110	0.00147
	A1	0.00214	0.00227	0.00284
	A1	-0.00004	-0.00003	-0.00003
	A1	0.00009	0.00009	0.00009
	A1	0.00105	0.00118	0.00175
	B0	0.00201	0.00218	0.00276
	B0	-0.00004	-0.00003	-0.00001
	B0	0.00002	0.00003	0.00003
	B0	0.00101	0.00118	0.00176
	C0	0.00190	0.00208	0.00269
	C0	-0.00004	-0.00003	-0.00002
	C0	-0.00003	-0.00002	0.00000
	C0	0.00101	0.00118	0.00180

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7R	(A1 * B0 * C0 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00001	0.00000
	(A1 * B0 * C0 * Y)	0.00027	0.00027	0.00028
	(A1 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * !Y)	0.00024	0.00025	0.00025
	(!A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7R	(A1 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00026
	(A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00001	-0.00000
	(A1 * !B0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00024	-0.00022	-0.00020
	(!A1 * !B0 * C0 * !Y)	0.00012	0.00013	0.00013
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * !C0 * !Y)	0.00012	0.00013	0.00013
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7R	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00000
	(A0 * B0 * C0 * Y)	0.00028	0.00029	0.00029
	(A0 * B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00011
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * C0 * !Y)	-0.00013	-0.00013	-0.00011
	(A0 * !B0 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * C0 * !Y)	0.00022	0.00023	0.00023
	(A0 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00011
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7R	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * C0 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * !C0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00020	-0.00018	-0.00015
	(!A0 * !B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00020	-0.00019	-0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7R	(A1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * C0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7R	(A1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * !Y)	-0.00019	-0.00018	-0.00017
	(A0 * !A1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !A1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * !Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7R	(A1 * !B0 * !Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !Y)	0.00006	0.00007	0.00007
	(!A1 * !B0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C0 falling (conditional):

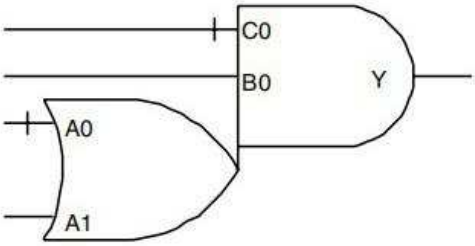
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X3H7R	(A1 * !B0 * !Y)	0.00024	0.00025	0.00025
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A1 * !B0 * !Y)	0.00024	0.00025	0.00025
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00007	-0.00007	-0.00007

OA211X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X4H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X4H7R	0.00079	0.00088	0.00084	0.00097	0.15419

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X4H7R	0.00000	0.35080	0.70078

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X4H7R	A0->Y (RR)	0.06134	0.21301	0.57568
	A1->Y (RR)	0.05808	0.20779	0.56746
	B0->Y (RR)	0.05799	0.21285	0.58318
	C0->Y (RR)	0.05610	0.20926	0.57510

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X4H7R	A0->Y (FF)	0.06414	0.19551	0.50259
	A1->Y (FF)	0.06219	0.19585	0.50668
	B0->Y (FF)	0.03484	0.15871	0.45065
	C0->Y (FF)	0.03369	0.15585	0.44566

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X4H7R	A0	0.00102	0.00112	0.00145
	A0	0.00009	0.00010	0.00010
	A0	-0.00010	-0.00010	-0.00006
	A0	0.00241	0.00255	0.00288
	A1	0.00102	0.00112	0.00147
	A1	0.00003	0.00003	0.00003
	A1	-0.00010	-0.00010	-0.00007
	A1	0.00225	0.00236	0.00271
	B0	0.00102	0.00114	0.00165
	B0	0.00009	0.00010	0.00010
	B0	-0.00002	-0.00002	0.00002
	B0	0.00211	0.00223	0.00271
	C0	0.00100	0.00116	0.00191
	C0	0.00009	0.00010	0.00010
	C0	0.00001	0.00004	0.00004
	C0	0.00197	0.00213	0.00284

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X4H7R	A0	0.00260	0.00270	0.00317
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00010	0.00010	0.00010
	A0	0.00119	0.00130	0.00177
	A1	0.00242	0.00257	0.00330
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00010	0.00010	0.00010
	A1	0.00123	0.00138	0.00212
	B0	0.00226	0.00245	0.00318
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00002	0.00002	0.00007
	B0	0.00114	0.00136	0.00209
	C0	0.00215	0.00235	0.00311
	C0	-0.00003	-0.00003	-0.00000
	C0	-0.00004	-0.00003	0.00000
	C0	0.00117	0.00137	0.00213

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7R	(A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00028	0.00029	0.00029
	(A1 * B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7R	(A1 * B0 * C0 * Y)	0.00012	0.00013	0.00013
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00015
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00025	-0.00023	-0.00021
	(!A1 * !B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00025	-0.00024	-0.00021
	(!A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00025	-0.00024	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7R	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00030	0.00030	0.00031
	(A0 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * C0 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	0.00022	0.00023	0.00023
	(A0 * !B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7R	(A0 * B0 * C0 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00002	0.00003	0.00004
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00021
	(A0 * !B0 * C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00020	-0.00018	-0.00015
	(!A0 * !B0 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00020	-0.00019	-0.00016
	(!A0 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7R	(A1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(A1 * !C0 * !Y)	-0.00000	-0.00001	-0.00000
	(A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !C0 * !Y)	-0.00017	-0.00017	-0.00016
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7R	(A1 * !C0 * !Y)	0.00017	0.00018	0.00019
	(A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * !Y)	-0.00021	-0.00021	-0.00019
	(A0 * !A1 * !C0 * !Y)	0.00017	0.00018	0.00018
	(A0 * !A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7R	(A1 * !B0 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !Y)	-0.00000	-0.00001	-0.00000
	(A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C0 falling (conditional):

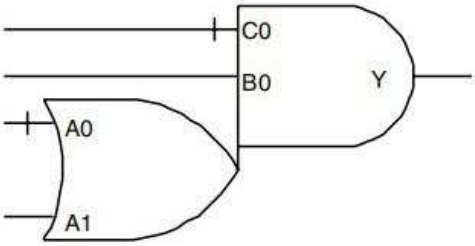
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X4H7R	(A1 * !B0 * !Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00007	-0.00007	-0.00007

OA211X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA211 cell provides the logical AND of one OR group and two additional inputs. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	0
x	1	0	x	0
x	1	1	0	0
x	1	1	1	1
1	x	0	x	0
1	x	1	0	0
1	x	1	1	1

Footprint

Cell Name	Area
OA211X6H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OA211X6H7R	0.00098	0.00105	0.00099	0.00108	0.23084

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA211X6H7R	0.00000	0.48680	0.98789

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X6H7R	A0->Y (RR)	0.06950	0.22449	0.59350
	A1->Y (RR)	0.06537	0.21882	0.58452
	B0->Y (RR)	0.06531	0.22446	0.60225
	C0->Y (RR)	0.06296	0.22050	0.59395

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA211X6H7R	A0->Y (FF)	0.07188	0.20731	0.52140
	A1->Y (FF)	0.06932	0.20735	0.52549
	B0->Y (FF)	0.03823	0.16606	0.46525
	C0->Y (FF)	0.03690	0.16317	0.46000

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X6H7R	A0	0.00161	0.00173	0.00228
	A0	0.00009	0.00009	0.00009
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00334	0.00347	0.00401
	A1	0.00162	0.00175	0.00232
	A1	0.00000	0.00001	0.00002
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00311	0.00325	0.00382
	B0	0.00162	0.00177	0.00256
	B0	0.00009	0.00009	0.00010
	B0	-0.00001	-0.00000	0.00007
	B0	0.00291	0.00311	0.00388
	C0	0.00160	0.00181	0.00295
	C0	0.00009	0.00009	0.00010
	C0	0.00006	0.00006	0.00014
	C0	0.00274	0.00298	0.00407

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA211X6H7R	A0	0.00356	0.00370	0.00445
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00010	0.00010	0.00010
	A0	0.00187	0.00201	0.00277
	A1	0.00333	0.00353	0.00466
	A1	-0.00001	-0.00001	0.00000
	A1	0.00010	0.00010	0.00010
	A1	0.00189	0.00208	0.00324
	B0	0.00313	0.00337	0.00443
	B0	-0.00001	-0.00001	-0.00000
	B0	0.00000	0.00001	0.00003
	B0	0.00179	0.00204	0.00310
	C0	0.00299	0.00323	0.00433
	C0	-0.00002	-0.00001	0.00000
	C0	-0.00006	-0.00006	-0.00002
	C0	0.00181	0.00206	0.00315

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7R	(A1 * B0 * C0 * Y)	-0.00015	-0.00014	-0.00012
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00033	0.00034	0.00034
	(A1 * B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * !Y)	-0.00020	-0.00019	-0.00017
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00027	0.00028	0.00028
	(!A1 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00002	0.00003
	(!A1 * B0 * !C0 * !Y)	0.00023	0.00024	0.00025
	(!A1 * !B0 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * !Y)	0.00001	0.00002	0.00003
	(!A1 * !B0 * C0 * !Y)	0.00023	0.00025	0.00025
	(!A1 * !B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !C0 * !Y)	0.00023	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7R	(A1 * B0 * C0 * Y)	0.00015	0.00015	0.00015
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !Y)	-0.00028	-0.00027	-0.00027
	(!A1 * B0 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00024	-0.00022	-0.00018
	(!A1 * !B0 * C0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00002
	(!A1 * !B0 * C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1 * !B0 * C0 * !Y)	-0.00024	-0.00023	-0.00019
	(!A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7R	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00036	0.00036	0.00036
	(A0 * B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00018
	(A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * C0 * !Y)	-0.00021	-0.00020	-0.00018
	(A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00019
	(A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * C0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7R	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	-0.00036	-0.00036	-0.00036
	(A0 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(A0 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !C0 * !Y)	-0.00021	-0.00019	-0.00016
	(!A0 * !B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * C0 * !Y)	-0.00022	-0.00020	-0.00017
	(!A0 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * !Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7R	(A1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !C0 * !Y)	0.00024	0.00024	0.00025
	(A0 * !A1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !C0 * !Y)	0.00023	0.00024	0.00024
	(!A0 * !A1 * C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7R	(A1 * !C0 * !Y)	0.00022	0.00023	0.00023
	(A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !C0 * !Y)	-0.00023	-0.00022	-0.00020
	(A0 * !A1 * !C0 * !Y)	0.00022	0.00023	0.00024
	(A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !C0 * !Y)	-0.00023	-0.00022	-0.00020
	(!A0 * !A1 * C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7R	(A1 * !B0 * !Y)	-0.00033	-0.00033	-0.00033
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * !Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !Y)	-0.00033	-0.00033	-0.00033
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !Y)	-0.00033	-0.00033	-0.00033
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for C0 falling (conditional):

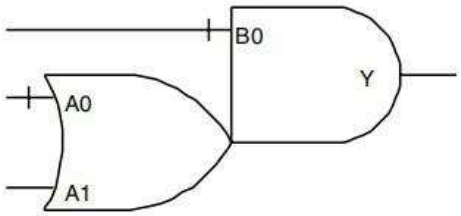
Cell Name	When	Power(pJ)		
		min	avg	max
OA211X6H7R	(A1 * !B0 * !Y)	0.00033	0.00033	0.00033
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !Y)	0.00033	0.00033	0.00033
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !Y)	0.00033	0.00033	0.00033
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !Y)	-0.00006	-0.00006	-0.00006

OA21X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X0P5H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X0P5H7R	0.00064	0.00070	0.00077	0.04261

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X0P5H7R	0.00000	0.18362	0.22896

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X0P5H7R	A0->Y (RR)	0.04707	0.19031	0.53753
	A1->Y (RR)	0.04514	0.18600	0.52908
	B0->Y (RR)	0.04453	0.18598	0.53132

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X0P5H7R	A0->Y (FF)	0.05868	0.17901	0.47033
	A1->Y (FF)	0.05725	0.17965	0.47361
	B0->Y (FF)	0.03526	0.14956	0.42894

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X0P5H7R	A0	0.00038	0.00045	0.00062
	A0	0.00006	0.00007	0.00007
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00133	0.00140	0.00155
	A1	0.00037	0.00045	0.00064
	A1	0.00002	0.00002	0.00003
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00116	0.00124	0.00142
	B0	0.00036	0.00048	0.00084
	B0	0.00007	0.00007	0.00007
	B0	-0.00000	0.00000	0.00001
	B0	0.00108	0.00119	0.00150

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X0P5H7R	A0	0.00131	0.00139	0.00157
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00005	0.00005	0.00005
	A0	0.00038	0.00045	0.00065
	A1	0.00121	0.00130	0.00160
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00005	0.00005	0.00005
	A1	0.00044	0.00054	0.00083
	B0	0.00113	0.00126	0.00164
	B0	-0.00002	-0.00002	-0.00002
	B0	-0.00000	0.00000	0.00000
	B0	0.00040	0.00053	0.00095

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7R	(A1 * B0 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7R	(A1 * B0 * Y)	0.00008	0.00008	0.00009
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * !Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * !Y)	0.00009	0.00010	0.00011
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7R	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7R	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B0 * !Y)	0.00013	0.00014	0.00015
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00015	-0.00014	-0.00012

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7R	(!A0 * !A1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B0 falling (conditional):

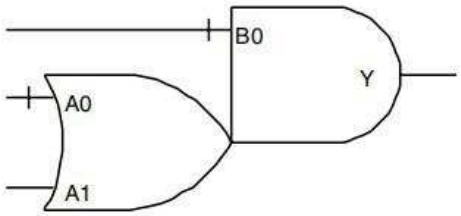
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P5H7R	(!A0 * !A1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !Y)	-0.00005	-0.00005	-0.00005

OA21X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X0P7H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X0P7H7R	0.00064	0.00069	0.00075	0.04831

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X0P7H7R	0.00000	0.19461	0.24664

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X0P7H7R	A0->Y (RR)	0.04637	0.19014	0.53818
	A1->Y (RR)	0.04442	0.18583	0.53020
	B0->Y (RR)	0.04376	0.18582	0.53233

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X0P7H7R	A0->Y (FF)	0.05827	0.17925	0.47131
	A1->Y (FF)	0.05681	0.17989	0.47491
	B0->Y (FF)	0.03453	0.14932	0.42938

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X0P7H7R	A0	0.00040	0.00047	0.00063
	A0	0.00006	0.00006	0.00006
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00134	0.00140	0.00156
	A1	0.00039	0.00047	0.00065
	A1	0.00002	0.00002	0.00002
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00117	0.00124	0.00142
	B0	0.00038	0.00050	0.00086
	B0	0.00006	0.00006	0.00006
	B0	0.00000	0.00000	0.00001
	B0	0.00108	0.00119	0.00151

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X0P7H7R	A0	0.00133	0.00141	0.00160
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00005	0.00005	0.00005
	A0	0.00041	0.00048	0.00068
	A1	0.00123	0.00132	0.00163
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00005	0.00005	0.00005
	A1	0.00047	0.00057	0.00088
	B0	0.00115	0.00128	0.00167
	B0	-0.00002	-0.00002	-0.00002
	B0	-0.00000	-0.00000	0.00000
	B0	0.00043	0.00056	0.00097

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7R	(A1 * B0 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7R	(A1 * B0 * Y)	0.00008	0.00008	0.00009
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * !Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * !Y)	0.00009	0.00010	0.00011
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7R	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7R	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B0 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00015	-0.00014	-0.00012

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7R	(!A0 * !A1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B0 falling (conditional):

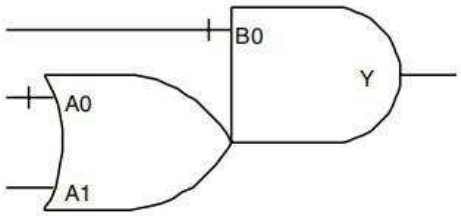
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X0P7H7R	(!A0 * !A1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !Y)	-0.00005	-0.00005	-0.00005

OA21X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X1H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X1H7R	0.00064	0.00069	0.00079	0.05765

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X1H7R	0.00000	0.21055	0.27085

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X1H7R	A0->Y (RR)	0.04605	0.19117	0.54202
	A1->Y (RR)	0.04413	0.18694	0.53400
	B0->Y (RR)	0.04379	0.18720	0.53632

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X1H7R	A0->Y (FF)	0.05878	0.18288	0.48152
	A1->Y (FF)	0.05734	0.18364	0.48546
	B0->Y (FF)	0.03460	0.15227	0.43846

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X1H7R	A0	0.00044	0.00051	0.00068
	A0	0.00006	0.00006	0.00006
	A0	-0.00005	-0.00005	-0.00002
	A0	0.00138	0.00145	0.00161
	A1	0.00043	0.00050	0.00069
	A1	0.00001	0.00002	0.00002
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00121	0.00128	0.00147
	B0	0.00041	0.00053	0.00090
	B0	0.00006	0.00006	0.00006
	B0	0.00000	0.00001	0.00002
	B0	0.00113	0.00124	0.00157

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X1H7R	A0	0.00139	0.00146	0.00166
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00005	0.00005	0.00005
	A0	0.00045	0.00052	0.00073
	A1	0.00127	0.00137	0.00170
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00005	0.00005	0.00005
	A1	0.00052	0.00062	0.00094
	B0	0.00120	0.00133	0.00173
	B0	-0.00002	-0.00002	-0.00001
	B0	-0.00001	-0.00001	0.00000
	B0	0.00047	0.00060	0.00101

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7R	(A1 * B0 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7R	(A1 * B0 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * !Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * !Y)	0.00009	0.00010	0.00011
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7R	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7R	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00015	-0.00014	-0.00012

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7R	(!A0 * !A1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B0 falling (conditional):

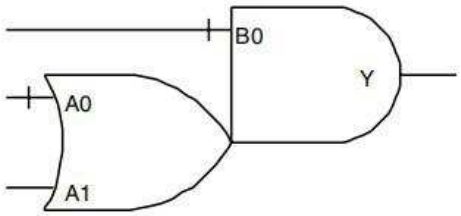
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1H7R	(!A0 * !A1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !Y)	-0.00005	-0.00005	-0.00005

OA21X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X1P4H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X1P4H7R	0.00064	0.00070	0.00077	0.06579

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X1P4H7R	0.00000	0.22554	0.29485

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X1P4H7R	A0->Y (RR)	0.04562	0.19160	0.54376
	A1->Y (RR)	0.04340	0.18701	0.53527
	B0->Y (RR)	0.04220	0.18613	0.53591

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X1P4H7R	A0->Y (FF)	0.05893	0.18377	0.48306
	A1->Y (FF)	0.05694	0.18418	0.48706
	B0->Y (FF)	0.03325	0.15120	0.43733

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X1P4H7R	A0	0.00045	0.00052	0.00069
	A0	0.00005	0.00005	0.00005
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00137	0.00143	0.00160
	A1	0.00044	0.00052	0.00071
	A1	0.00001	0.00001	0.00001
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00121	0.00128	0.00147
	B0	0.00043	0.00056	0.00095
	B0	0.00005	0.00005	0.00005
	B0	0.00000	0.00001	0.00002
	B0	0.00113	0.00125	0.00160

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X1P4H7R	A0	0.00142	0.00150	0.00171
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00004	0.00004	0.00004
	A0	0.00052	0.00059	0.00081
	A1	0.00131	0.00141	0.00175
	A1	-0.00001	-0.00001	0.00002
	A1	0.00004	0.00004	0.00004
	A1	0.00057	0.00067	0.00101
	B0	0.00119	0.00133	0.00175
	B0	-0.00001	-0.00001	0.00000
	B0	-0.00001	-0.00001	0.00000
	B0	0.00048	0.00061	0.00105

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7R	(A1 * B0 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00025	0.00025	0.00026
	(A1 * !B0 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7R	(A1 * B0 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00025	-0.00025	-0.00024
	(A1 * !B0 * !Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * !B0 * !Y)	0.00009	0.00010	0.00011
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7R	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !Y)	-0.00014	-0.00013	-0.00013
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	0.00016	0.00016	0.00017

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7R	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7R	(!A0 * !A1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

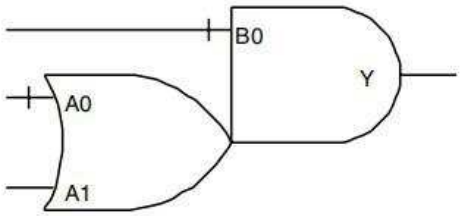
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X1P4H7R	(!A0 * !A1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !Y)	-0.00008	-0.00008	-0.00007

OA21X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X2H7R	0.00065	0.00070	0.00078	0.08499

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X2H7R	0.00000	0.26377	0.36913

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X2H7R	A0->Y (RR)	0.04993	0.19950	0.55901
	A1->Y (RR)	0.04778	0.19539	0.55228
	B0->Y (RR)	0.04756	0.19590	0.55381

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X2H7R	A0->Y (FF)	0.06473	0.19248	0.49531
	A1->Y (FF)	0.06304	0.19364	0.50103
	B0->Y (FF)	0.03734	0.15808	0.44749

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X2H7R	A0	0.00069	0.00077	0.00099
	A0	0.00004	0.00005	0.00005
	A0	-0.00004	-0.00004	-0.00001
	A0	0.00158	0.00166	0.00188
	A1	0.00068	0.00077	0.00102
	A1	0.00000	0.00000	0.00000
	A1	-0.00004	-0.00004	-0.00003
	A1	0.00141	0.00150	0.00173
	B0	0.00067	0.00080	0.00124
	B0	0.00004	0.00005	0.00005
	B0	0.00001	0.00002	0.00003
	B0	0.00134	0.00146	0.00187

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X2H7R	A0	0.00163	0.00172	0.00200
	A0	-0.00005	-0.00005	-0.00002
	A0	0.00003	0.00004	0.00004
	A0	0.00076	0.00084	0.00113
	A1	0.00154	0.00164	0.00208
	A1	-0.00000	-0.00000	0.00002
	A1	0.00004	0.00004	0.00004
	A1	0.00083	0.00094	0.00138
	B0	0.00145	0.00159	0.00206
	B0	-0.00000	-0.00000	0.00000
	B0	-0.00002	-0.00002	-0.00000
	B0	0.00078	0.00091	0.00139

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7R	(A1 * B0 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00025	0.00026	0.00026
	(!A1 * !B0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7R	(A1 * B0 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * !Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * !Y)	0.00009	0.00010	0.00010
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7R	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00023	0.00023	0.00024
	(A0 * !B0 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7R	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7R	(!A0 * !A1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

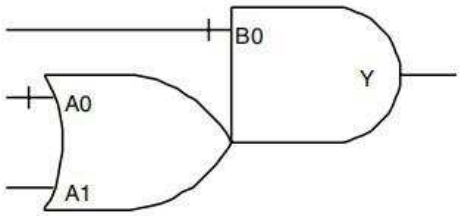
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X2H7R	(!A0 * !A1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !Y)	-0.00007	-0.00007	-0.00007

OA21X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X3H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X3H7R	0.00074	0.00081	0.00092	0.12061

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X3H7R	0.00000	0.36229	0.50956

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X3H7R	A0->Y (RR)	0.04513	0.19470	0.55495
	A1->Y (RR)	0.04282	0.19029	0.54618
	B0->Y (RR)	0.04273	0.19073	0.54727

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X3H7R	A0->Y (FF)	0.05824	0.18627	0.48853
	A1->Y (FF)	0.05646	0.18663	0.49200
	B0->Y (FF)	0.03297	0.15368	0.44272

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X3H7R	A0	0.00081	0.00092	0.00121
	A0	0.00006	0.00006	0.00006
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00189	0.00199	0.00229
	A1	0.00081	0.00092	0.00124
	A1	0.00000	0.00000	0.00000
	A1	-0.00005	-0.00004	-0.00004
	A1	0.00169	0.00180	0.00213
	B0	0.00078	0.00096	0.00155
	B0	0.00006	0.00006	0.00006
	B0	0.00002	0.00003	0.00006
	B0	0.00159	0.00177	0.00233

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X3H7R	A0	0.00202	0.00212	0.00249
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00004	0.00005	0.00005
	A0	0.00095	0.00105	0.00143
	A1	0.00186	0.00200	0.00260
	A1	-0.00000	0.00000	0.00002
	A1	0.00004	0.00005	0.00005
	A1	0.00101	0.00114	0.00175
	B0	0.00176	0.00195	0.00260
	B0	-0.00000	0.00000	0.00002
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00094	0.00111	0.00176

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7R	(A1 * B0 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00027	0.00028	0.00028
	(!A1 * !B0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7R	(A1 * B0 * Y)	0.00011	0.00011	0.00012
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00001	-0.00000
	(A1 * !B0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A1 * !B0 * !Y)	0.00013	0.00013	0.00014
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00025	-0.00024	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7R	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * Y)	0.00028	0.00028	0.00028
	(A0 * !B0 * !Y)	-0.00013	-0.00013	-0.00011
	(A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7R	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * !Y)	0.00013	0.00013	0.00014
	(A0 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7R	(!A0 * !A1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for B0 falling (conditional):

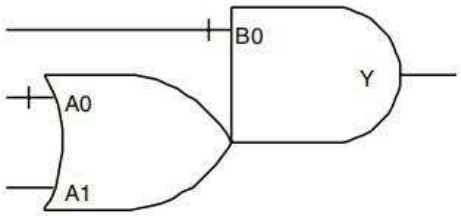
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X3H7R	(!A0 * !A1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !Y)	-0.00007	-0.00006	-0.00006

OA21X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	**A1**	**B0**	**Y**
0	**0**	**x**	**0**
x	**1**	**0**	**0**
x	**1**	**1**	**1**
1	**x**	**0**	**0**
1	**x**	**1**	**1**

Footprint

Cell Name	Area
OA21X4H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X4H7R	0.00080	0.00087	0.00097	0.15426

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X4H7R	0.00000	0.44559	0.63019

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X4H7R	A0->Y (RR)	0.04253	0.19133	0.54873
	A1->Y (RR)	0.04013	0.18690	0.54024
	B0->Y (RR)	0.03993	0.18730	0.54160

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X4H7R	A0->Y (FF)	0.05664	0.18460	0.48571
	A1->Y (FF)	0.05457	0.18468	0.48870
	B0->Y (FF)	0.03140	0.15204	0.44003

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X4H7R	A0	0.00096	0.00108	0.00146
	A0	0.00006	0.00006	0.00006
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00210	0.00222	0.00260
	A1	0.00096	0.00108	0.00150
	A1	-0.00001	-0.00001	0.00000
	A1	-0.00005	-0.00004	-0.00003
	A1	0.00187	0.00202	0.00243
	B0	0.00093	0.00113	0.00187
	B0	0.00006	0.00006	0.00006
	B0	0.00002	0.00004	0.00005
	B0	0.00179	0.00198	0.00268

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X4H7R	A0	0.00223	0.00234	0.00283
	A0	-0.00006	-0.00006	0.00000
	A0	0.00004	0.00005	0.00005
	A0	0.00110	0.00121	0.00170
	A1	0.00205	0.00222	0.00296
	A1	0.00000	0.00001	0.00003
	A1	0.00004	0.00005	0.00005
	A1	0.00115	0.00131	0.00207
	B0	0.00194	0.00215	0.00296
	B0	0.00000	0.00001	0.00003
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00107	0.00128	0.00209

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7R	(A1 * B0 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00029	0.00030	0.00030
	(A1 * !B0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7R	(A1 * B0 * Y)	0.00012	0.00013	0.00013
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !Y)	-0.00027	-0.00025	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7R	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	0.00029	0.00030	0.00030
	(A0 * !B0 * !Y)	-0.00015	-0.00014	-0.00012
	(A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7R	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	-0.00030	-0.00029	-0.00029
	(A0 * !B0 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	-0.00020	-0.00019	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7R	(!A0 * !A1 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

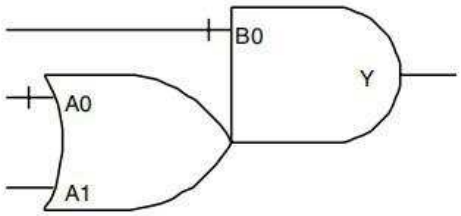
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X4H7R	(!A0 * !A1 * !Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !Y)	-0.00007	-0.00007	-0.00007

OA21X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	**A1**	**B0**	**Y**
0	**0**	**x**	**0**
x	**1**	**0**	**0**
x	**1**	**1**	**1**
1	**x**	**0**	**0**
1	**x**	**1**	**1**

Footprint

Cell Name	Area
OA21X6H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X6H7R	0.00089	0.00101	0.00112	0.23232

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X6H7R	0.00000	0.61742	0.90297

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X6H7R	A0->Y (RR)	0.04758	0.20047	0.56581
	A1->Y (RR)	0.04512	0.19619	0.55873
	B0->Y (RR)	0.04541	0.19739	0.56118

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X6H7R	A0->Y (FF)	0.06343	0.19597	0.50505
	A1->Y (FF)	0.06155	0.19636	0.50888
	B0->Y (FF)	0.03520	0.16041	0.45610

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X6H7R	A0	0.00165	0.00181	0.00241
	A0	0.00004	0.00005	0.00005
	A0	-0.00004	-0.00003	-0.00002
	A0	0.00294	0.00311	0.00371
	A1	0.00165	0.00182	0.00244
	A1	-0.00004	-0.00004	-0.00003
	A1	-0.00004	-0.00003	-0.00000
	A1	0.00270	0.00288	0.00350
	B0	0.00163	0.00187	0.00293
	B0	0.00004	0.00005	0.00005
	B0	0.00002	0.00006	0.00007
	B0	0.00260	0.00284	0.00386

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X6H7R	A0	0.00306	0.00324	0.00401
	A0	-0.00005	-0.00005	0.00001
	A0	0.00002	0.00003	0.00004
	A0	0.00180	0.00195	0.00273
	A1	0.00287	0.00309	0.00425
	A1	0.00003	0.00004	0.00004
	A1	0.00003	0.00003	0.00004
	A1	0.00185	0.00206	0.00323
	B0	0.00276	0.00303	0.00417
	B0	0.00003	0.00004	0.00004
	B0	-0.00006	-0.00006	-0.00002
	B0	0.00177	0.00204	0.00317

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7R	(A1 * B0 * Y)	-0.00015	-0.00014	-0.00012
	(A1 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	0.00032	0.00032	0.00033
	(A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00003
	(!A1 * !B0 * !Y)	0.00028	0.00029	0.00029

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7R	(A1 * B0 * Y)	0.00015	0.00015	0.00016
	(A1 * B0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * Y)	-0.00032	-0.00032	-0.00031
	(A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	-0.00032	-0.00032	-0.00031
	(!A1 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00028	-0.00027	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7R	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	0.00034	0.00034	0.00034
	(A0 * !B0 * !Y)	-0.00019	-0.00018	-0.00016
	(A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !Y)	0.00025	0.00025	0.00026
	(!A0 * !B0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7R	(A0 * B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * Y)	0.00003	0.00004	0.00004
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !B0 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !Y)	-0.00022	-0.00021	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7R	(!A0 * !A1 * !Y)	-0.00034	-0.00034	-0.00033
	(!A0 * !A1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

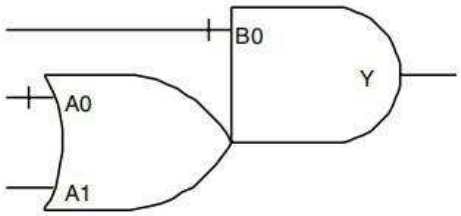
Cell Name	When	Power(pJ)		
		min	avg	max
OA21X6H7R	(!A0 * !A1 * !Y)	0.00033	0.00034	0.00034
	(!A0 * !A1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !Y)	-0.00006	-0.00006	-0.00006

OA21X8H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA21 cell provides the logical AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	0
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OA21X8H7R	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OA21X8H7R	0.00158	0.00164	0.00173	0.30934

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA21X8H7R	0.00000	0.89117	1.26039

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X8H7R	A0->Y (RR)	0.04346	0.19342	0.55342
	A1->Y (RR)	0.04006	0.18749	0.54151
	B0->Y (RR)	0.03982	0.18861	0.54473

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA21X8H7R	A0->Y (FF)	0.05818	0.18741	0.48995
	A1->Y (FF)	0.05452	0.18551	0.49098
	B0->Y (FF)	0.03061	0.15325	0.44455

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X8H7R	A0	0.00212	0.00237	0.00316
	A0	0.00011	0.00011	0.00011
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00444	0.00469	0.00548
	A1	0.00213	0.00242	0.00330
	A1	-0.00002	-0.00002	-0.00000
	A1	-0.00010	-0.00009	-0.00009
	A1	0.00401	0.00429	0.00517
	B0	0.00214	0.00256	0.00412
	B0	0.00011	0.00011	0.00011
	B0	0.00000	0.00007	0.00020
	B0	0.00376	0.00422	0.00568

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA21X8H7R	A0	0.00474	0.00498	0.00596
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00009	0.00009	0.00009
	A0	0.00242	0.00265	0.00365
	A1	0.00416	0.00451	0.00611
	A1	0.00002	0.00002	0.00017
	A1	0.00009	0.00009	0.00010
	A1	0.00236	0.00270	0.00430
	B0	0.00406	0.00451	0.00624
	B0	0.00002	0.00002	0.00007
	B0	-0.00007	-0.00007	0.00000
	B0	0.00230	0.00273	0.00446

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7R	(A1 * B0 * Y)	-0.00028	-0.00025	-0.00019
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * Y)	0.00052	0.00053	0.00056
	(A1 * !B0 * !Y)	-0.00028	-0.00026	-0.00022
	(A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00052	0.00052	0.00053
	(!A1 * !B0 * !Y)	-0.00035	-0.00035	-0.00035
	(!A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !Y)	0.00001	0.00002	0.00003
	(!A1 * !B0 * !Y)	0.00046	0.00046	0.00047

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7R	(A1 * B0 * Y)	0.00029	0.00029	0.00030
	(A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * Y)	-0.00052	-0.00052	-0.00051
	(A1 * !B0 * !Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !Y)	-0.00052	-0.00052	-0.00051
	(!A1 * !B0 * !Y)	0.00036	0.00036	0.00038
	(!A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A1 * !B0 * !Y)	-0.00046	-0.00043	-0.00039

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7R	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * Y)	0.00063	0.00063	0.00063
	(A0 * !B0 * !Y)	-0.00034	-0.00032	-0.00027
	(A0 * !B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !Y)	0.00045	0.00045	0.00046
	(!A0 * !B0 * !Y)	-0.00041	-0.00041	-0.00040
	(!A0 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !Y)	0.00039	0.00040	0.00040

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7R	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00005	0.00005	0.00005
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * Y)	-0.00063	-0.00063	-0.00062
	(A0 * !B0 * !Y)	0.00034	0.00034	0.00034
	(A0 * !B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !Y)	-0.00001	-0.00001	0.00001
	(A0 * !B0 * !Y)	-0.00046	-0.00045	-0.00044
	(!A0 * !B0 * !Y)	0.00041	0.00042	0.00043
	(!A0 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * !Y)	-0.00039	-0.00037	-0.00034

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7R	(!A0 * !A1 * !Y)	-0.00053	-0.00052	-0.00052
	(!A0 * !A1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !Y)	0.00014	0.00015	0.00016

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA21X8H7R	(!A0 * !A1 * !Y)	0.00052	0.00052	0.00053
	(!A0 * !A1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !Y)	-0.00015	-0.00014	-0.00014

OA221X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X0P5H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X0P5H7R	0.00076	0.00072	0.00070	0.00067	0.00078	0.04247

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X0P5H7R	0.00000	0.17511	0.27377

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X0P5H7R	A0->Y (RR)	0.07850	0.22779	0.58873
	A1->Y (RR)	0.08206	0.23283	0.59686
	B0->Y (RR)	0.07214	0.22340	0.58837
	B1->Y (RR)	0.07529	0.22851	0.59679
	C0->Y (RR)	0.06740	0.21795	0.58269

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X0P5H7R	A0->Y (FF)	0.07918	0.21305	0.53041
	A1->Y (FF)	0.08151	0.21185	0.52216
	B0->Y (FF)	0.06950	0.19960	0.50807
	B1->Y (FF)	0.07170	0.19880	0.50159
	C0->Y (FF)	0.04109	0.16074	0.44969

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X0P5H7R	A0	0.00033	0.00039	0.00047
	A0	0.00008	0.00009	0.00011
	A0	-0.00012	-0.00012	-0.00011
	A0	0.00175	0.00180	0.00187
	A1	0.00033	0.00038	0.00046
	A1	0.00013	0.00013	0.00014
	A1	-0.00012	-0.00012	-0.00010
	A1	0.00189	0.00193	0.00199
	B0	0.00035	0.00041	0.00056
	B0	0.00009	0.00009	0.00012
	B0	-0.00006	-0.00005	-0.00004
	B0	0.00145	0.00151	0.00163
	B1	0.00035	0.00040	0.00055
	B1	0.00013	0.00013	0.00015
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00155	0.00160	0.00172
	C0	0.00034	0.00044	0.00076
	C0	0.00013	0.00013	0.00013
	C0	-0.00000	0.00000	0.00002
	C0	0.00137	0.00146	0.00173

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X0P5H7R	A0	0.00193	0.00201	0.00227
	A0	-0.00005	-0.00005	-0.00003
	A0	0.00012	0.00012	0.00013
	A0	0.00058	0.00065	0.00091
	A1	0.00206	0.00212	0.00227
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00012	0.00012	0.00012
	A1	0.00056	0.00061	0.00077
	B0	0.00164	0.00172	0.00200
	B0	-0.00005	-0.00005	-0.00003
	B0	0.00005	0.00005	0.00007
	B0	0.00055	0.00063	0.00091
	B1	0.00176	0.00182	0.00199
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00004	0.00005	0.00005
	B1	0.00056	0.00062	0.00079
	C0	0.00151	0.00161	0.00195
	C0	-0.00005	-0.00005	-0.00004
	C0	-0.00000	0.00000	0.00000
	C0	0.00044	0.00055	0.00093

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7R	**(A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00028	0.00028	0.00028
	(A1 * B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00018	0.00018	0.00019
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7R	**(A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00018
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00013
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00017	-0.00015	-0.00014
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7R	**(A0 * B0 * C0 * Y)**	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00026	0.00026	0.00027
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * B1 * C0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00026	0.00026	0.00027
	(A0 * !B0 * !B1 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7R	**(A0 * B0 * C0 * Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * B1 * C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00019	-0.00017	-0.00015
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00015
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7R	**(A0 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7R	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !A1 * B1 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7R	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00007	-0.00006
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00022	0.00022	0.00023
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00019	0.00020	0.00020
	(A0 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P5H7R	**(A0 * B0 * C0 * Y)**	0.00008	0.00008	0.00008
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00010	0.00011	0.00011
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * B0 * C0 * Y)	0.00008	0.00008	0.00009
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00013
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !A1 * B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X0P5H7R	(A0 * !B0 * !B1 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X0P5H7R	(A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00009	-0.00009	-0.00008

OA221X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X0P7H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X0P7H7R	0.00076	0.00074	0.00070	0.00067	0.00078	0.04821

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X0P7H7R	0.00000	0.18509	0.29145

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X0P7H7R	A0->Y (RR)	0.07804	0.22819	0.59027
	A1->Y (RR)	0.08173	0.23336	0.59839
	B0->Y (RR)	0.07169	0.22391	0.58990
	B1->Y (RR)	0.07485	0.22896	0.59900
	C0->Y (RR)	0.06696	0.21851	0.58371

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X0P7H7R	A0->Y (FF)	0.07869	0.21343	0.53188
	A1->Y (FF)	0.08113	0.21238	0.52357
	B0->Y (FF)	0.06901	0.20003	0.50968
	B1->Y (FF)	0.07122	0.19918	0.50292
	C0->Y (FF)	0.04047	0.16077	0.45038

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X0P7H7R	A0	0.00036	0.00042	0.00052
	A0	0.00009	0.00009	0.00009
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00178	0.00183	0.00191
	A1	0.00036	0.00041	0.00048
	A1	0.00013	0.00013	0.00013
	A1	-0.00012	-0.00012	-0.00010
	A1	0.00192	0.00197	0.00203
	B0	0.00038	0.00044	0.00059
	B0	0.00007	0.00009	0.00009
	B0	-0.00005	-0.00005	-0.00003
	B0	0.00149	0.00154	0.00167
	B1	0.00038	0.00043	0.00057
	B1	0.00013	0.00013	0.00013
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00158	0.00163	0.00176
	C0	0.00036	0.00047	0.00079
	C0	0.00013	0.00013	0.00013
	C0	0.00000	0.00000	0.00003
	C0	0.00140	0.00149	0.00177

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X0P7H7R	A0	0.00196	0.00204	0.00231
	A0	-0.00004	-0.00004	-0.00003
	A0	0.00012	0.00012	0.00012
	A0	0.00060	0.00068	0.00096
	A1	0.00209	0.00214	0.00230
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00012	0.00012	0.00012
	A1	0.00058	0.00063	0.00079
	B0	0.00167	0.00175	0.00204
	B0	-0.00005	-0.00005	-0.00003
	B0	0.00005	0.00005	0.00005
	B0	0.00057	0.00066	0.00095
	B1	0.00179	0.00185	0.00202
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00004	0.00005	0.00007
	B1	0.00059	0.00064	0.00082
	C0	0.00153	0.00164	0.00199
	C0	-0.00005	-0.00005	-0.00004
	C0	-0.00000	-0.00000	0.00001
	C0	0.00047	0.00058	0.00095

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7R	**(A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00028	0.00028	0.00028
	(A1 * B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	0.00018	0.00018	0.00019
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7R	**(A1 * B0 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00013
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00017	-0.00015	-0.00014
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7R	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00007	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00027	0.00028	0.00028
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(A0 * !B0 * B1 * C0 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(A0 * !B0 * !B1 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7R	**(A0 * B0 * C0 * Y)**	0.00008	0.00008	0.00008
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * B1 * C0 * Y)	0.00008	0.00008	0.00008
	(A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * !C0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7R	**(A0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7R	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * B1 * !C0 * !Y)	0.00011	0.00012	0.00012
	(A0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * B1 * !C0 * !Y)	0.00011	0.00012	0.00012
	(!A0 * A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !A1 * B1 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7R	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00007	-0.00006
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00022	0.00022	0.00023
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X0P7H7R	**(A0 * B0 * C0 * Y)**	0.00008	0.00008	0.00008
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00013
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !A1 * B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X0P7H7R	(A0 * !B0 * !B1 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X0P7H7R	(A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00009	-0.00009	-0.00008

OA221X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X1H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X1H7R	0.00075	0.00074	0.00070	0.00067	0.00078	0.05740

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X1H7R	0.00000	0.19980	0.31566

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X1H7R	A0->Y (RR)	0.07709	0.22815	0.59129
	A1->Y (RR)	0.08069	0.23324	0.59933
	B0->Y (RR)	0.07073	0.22391	0.59118
	B1->Y (RR)	0.07386	0.22901	0.60069
	C0->Y (RR)	0.06603	0.21858	0.58533

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X1H7R	A0->Y (FF)	0.07786	0.21545	0.53913
	A1->Y (FF)	0.08030	0.21431	0.53067
	B0->Y (FF)	0.06828	0.20210	0.51722
	B1->Y (FF)	0.07048	0.20120	0.51040
	C0->Y (FF)	0.03956	0.16235	0.45726

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X1H7R	A0	0.00040	0.00045	0.00055
	A0	0.00007	0.00008	0.00008
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00180	0.00185	0.00194
	A1	0.00040	0.00044	0.00052
	A1	0.00012	0.00013	0.00013
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00195	0.00199	0.00207
	B0	0.00042	0.00047	0.00063
	B0	0.00007	0.00008	0.00009
	B0	-0.00005	-0.00005	-0.00002
	B0	0.00151	0.00156	0.00171
	B1	0.00041	0.00046	0.00062
	B1	0.00012	0.00012	0.00012
	B1	-0.00005	-0.00005	-0.00002
	B1	0.00160	0.00165	0.00179
	C0	0.00040	0.00050	0.00084
	C0	0.00012	0.00012	0.00013
	C0	0.00001	0.00001	0.00003
	C0	0.00142	0.00151	0.00181

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X1H7R	A0	0.00199	0.00207	0.00237
	A0	-0.00004	-0.00004	-0.00003
	A0	0.00011	0.00012	0.00012
	A0	0.00064	0.00072	0.00102
	A1	0.00212	0.00217	0.00235
	A1	-0.00008	-0.00008	-0.00006
	A1	0.00011	0.00012	0.00012
	A1	0.00061	0.00067	0.00085
	B0	0.00169	0.00178	0.00209
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00002	0.00005	0.00006
	B0	0.00062	0.00070	0.00101
	B1	0.00182	0.00188	0.00207
	B1	-0.00008	-0.00008	-0.00008
	B1	0.00004	0.00005	0.00006
	B1	0.00063	0.00068	0.00088
	C0	0.00156	0.00167	0.00204
	C0	-0.00004	-0.00004	-0.00003
	C0	-0.00001	-0.00001	0.00001
	C0	0.00051	0.00062	0.00099

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7R	**(A1 * B0 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00028	0.00028	0.00028
	(A1 * B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	0.00018	0.00018	0.00019
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7R	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(A1 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00019	-0.00018	-0.00018
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00013
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00016	-0.00015	-0.00013
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7R	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00007	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00028	0.00028	0.00029
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00014	-0.00013	-0.00013
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !B0 * B1 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00028	0.00028	0.00028
	(A0 * !B0 * !B1 * !Y)	-0.00014	-0.00013	-0.00013
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00019	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7R	**(A0 * B0 * C0 * Y)**	0.00008	0.00008	0.00009
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * !B0 * B1 * C0 * Y)	0.00008	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00000	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00020	-0.00018	-0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00020	-0.00018	-0.00017
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7R	**(A0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7R	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * B1 * !C0 * !Y)	0.00011	0.00012	0.00012
	(!A0 * A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B1 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7R	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00007	-0.00006
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00022	0.00022	0.00023
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1H7R	**(A0 * B0 * C0 * Y)**	0.00008	0.00008	0.00009
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * A1 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00013
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !A1 * B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X1H7R	(A0 * !B0 * !B1 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X1H7R	(A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00009	-0.00009	-0.00008

OA221X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X1P4H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X1P4H7R	0.00075	0.00075	0.00070	0.00067	0.00078	0.06567

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X1P4H7R	0.00000	0.21344	0.33966

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X1P4H7R	A0->Y (RR)	0.07673	0.22900	0.59416
	A1->Y (RR)	0.08042	0.23414	0.60229
	B0->Y (RR)	0.07038	0.22489	0.59411
	B1->Y (RR)	0.07351	0.22995	0.60356
	C0->Y (RR)	0.06566	0.21954	0.58834

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X1P4H7R	A0->Y (FF)	0.07737	0.21619	0.54112
	A1->Y (FF)	0.07988	0.21508	0.53329
	B0->Y (FF)	0.06781	0.20287	0.51948
	B1->Y (FF)	0.07002	0.20197	0.51252
	C0->Y (FF)	0.03890	0.16262	0.45885

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X1P4H7R	A0	0.00042	0.00047	0.00058
	A0	0.00007	0.00008	0.00008
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00182	0.00187	0.00197
	A1	0.00042	0.00046	0.00056
	A1	0.00012	0.00012	0.00012
	A1	-0.00011	-0.00011	-0.00010
	A1	0.00197	0.00201	0.00210
	B0	0.00044	0.00049	0.00067
	B0	0.00006	0.00008	0.00008
	B0	-0.00005	-0.00004	-0.00002
	B0	0.00152	0.00158	0.00174
	B1	0.00043	0.00048	0.00066
	B1	0.00012	0.00012	0.00012
	B1	-0.00005	-0.00004	-0.00001
	B1	0.00161	0.00167	0.00183
	C0	0.00041	0.00052	0.00088
	C0	0.00012	0.00012	0.00012
	C0	0.00000	0.00001	0.00004
	C0	0.00144	0.00153	0.00184

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X1P4H7R	A0	0.00202	0.00211	0.00243
	A0	-0.00004	-0.00004	-0.00001
	A0	0.00011	0.00011	0.00011
	A0	0.00068	0.00076	0.00109
	A1	0.00215	0.00221	0.00241
	A1	-0.00008	-0.00008	-0.00006
	A1	0.00011	0.00011	0.00011
	A1	0.00065	0.00071	0.00091
	B0	0.00172	0.00181	0.00215
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00004	0.00004	0.00006
	B0	0.00066	0.00074	0.00108
	B1	0.00185	0.00191	0.00212
	B1	-0.00008	-0.00008	-0.00006
	B1	0.00002	0.00004	0.00006
	B1	0.00066	0.00072	0.00094
	C0	0.00159	0.00170	0.00209
	C0	-0.00003	-0.00003	-0.00003
	C0	-0.00001	-0.00001	0.00001
	C0	0.00055	0.00066	0.00105

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7R	**(A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00028	0.00028	0.00028
	(A1 * B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	0.00018	0.00019	0.00019
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7R	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00017	-0.00015	-0.00013
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7R	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00007	-0.00006
	(A0 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A0 * !B0 * B1 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00028	0.00028	0.00029
	(A0 * !B0 * !B1 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7R	**(A0 * B0 * C0 * Y)**	0.00008	0.00008	0.00008
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * !B0 * B1 * C0 * Y)	0.00008	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * B0 * !C0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00020	-0.00018	-0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7R	**(A0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7R	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * B1 * !C0 * !Y)	0.00011	0.00012	0.00012
	(A0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * B1 * !C0 * !Y)	0.00011	0.00012	0.00012
	(!A0 * A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B1 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7R	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00007	-0.00006
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00022	0.00022	0.00023
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00022	0.00023	0.00024
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X1P4H7R	**(A0 * B0 * C0 * Y)**	0.00008	0.00009	0.00009
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00010	0.00011	0.00011
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00013
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00016
	(!A0 * A1 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00013
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !A1 * B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X1P4H7R	(A0 * !B0 * !B1 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X1P4H7R	(A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00009	-0.00009	-0.00008

OA221X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X2H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X2H7R	0.00075	0.00076	0.00070	0.00067	0.00078	0.07718

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X2H7R	0.00000	0.23378	0.37748

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X2H7R	A0->Y (RR)	0.07737	0.23083	0.59713
	A1->Y (RR)	0.08119	0.23606	0.60589
	B0->Y (RR)	0.07106	0.22697	0.59857
	B1->Y (RR)	0.07419	0.23192	0.60694
	C0->Y (RR)	0.06639	0.22164	0.59275

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X2H7R	A0->Y (FF)	0.07765	0.21652	0.53978
	A1->Y (FF)	0.08029	0.21546	0.53109
	B0->Y (FF)	0.06812	0.20334	0.51867
	B1->Y (FF)	0.07034	0.20236	0.51107
	C0->Y (FF)	0.03866	0.16217	0.45605

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X2H7R	A0	0.00047	0.00053	0.00066
	A0	0.00007	0.00007	0.00007
	A0	-0.00010	-0.00010	-0.00008
	A0	0.00186	0.00192	0.00204
	A1	0.00048	0.00053	0.00064
	A1	0.00011	0.00011	0.00011
	A1	-0.00010	-0.00010	-0.00008
	A1	0.00202	0.00207	0.00218
	B0	0.00049	0.00056	0.00076
	B0	0.00006	0.00007	0.00008
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00157	0.00163	0.00182
	B1	0.00049	0.00055	0.00074
	B1	0.00011	0.00011	0.00012
	B1	-0.00004	-0.00004	-0.00001
	B1	0.00164	0.00171	0.00190
	C0	0.00047	0.00058	0.00096
	C0	0.00011	0.00011	0.00011
	C0	0.00000	0.00002	0.00005
	C0	0.00149	0.00158	0.00193

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X2H7R	A0	0.00208	0.00216	0.00254
	A0	-0.00004	-0.00003	-0.00001
	A0	0.00010	0.00011	0.00011
	A0	0.00075	0.00084	0.00121
	A1	0.00221	0.00227	0.00250
	A1	-0.00007	-0.00007	-0.00005
	A1	0.00010	0.00010	0.00012
	A1	0.00071	0.00077	0.00100
	B0	0.00178	0.00187	0.00226
	B0	-0.00003	-0.00003	-0.00001
	B0	0.00003	0.00004	0.00004
	B0	0.00073	0.00081	0.00120
	B1	0.00191	0.00197	0.00221
	B1	-0.00007	-0.00007	-0.00005
	B1	0.00003	0.00004	0.00005
	B1	0.00073	0.00080	0.00104
	C0	0.00164	0.00176	0.00218
	C0	-0.00003	-0.00003	-0.00002
	C0	-0.00002	-0.00001	0.00000
	C0	0.00062	0.00073	0.00116

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7R	**(A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00027	0.00028	0.00028
	(A1 * B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	0.00018	0.00018	0.00019
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00016	0.00017	0.00017
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7R	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * B1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * !B1 * C0 * !Y)	0.00014	0.00015	0.00015
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00014	0.00015	0.00015
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00013
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00017	-0.00015	-0.00013
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7R	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00007	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00029	0.00029	0.00030
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * B1 * C0 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A0 * !B0 * !B1 * !Y)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00022	0.00023	0.00023
	(!A0 * B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00002
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7R	**(A0 * B0 * C0 * Y)**	0.00008	0.00008	0.00008
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * !B0 * B1 * C0 * Y)	0.00008	0.00009	0.00009
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A0 * B0 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00015	0.00016	0.00016
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7R	**(A0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00001
	(A0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7R	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * B1 * !C0 * !Y)	0.00011	0.00012	0.00012
	(A0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * B1 * !C0 * !Y)	0.00011	0.00012	0.00012
	(!A0 * A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00014
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B1 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7R	**(A0 * B0 * C0 * Y)**	-0.00008	-0.00007	-0.00006
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00022	0.00022	0.00023
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X2H7R	**(A0 * B0 * C0 * Y)**	0.00008	0.00008	0.00008
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00013
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A0 * A1 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00013
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !A1 * B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X2H7R	(A0 * !B0 * !B1 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X2H7R	(A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00009	-0.00009	-0.00008

OA221X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X3H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X3H7R	0.00086	0.00083	0.00080	0.00077	0.00087	0.12005

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X3H7R	0.00000	0.33877	0.57258

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X3H7R	A0->Y (RR)	0.07383	0.22827	0.59647
	A1->Y (RR)	0.07757	0.23349	0.60526
	B0->Y (RR)	0.06851	0.22603	0.60026
	B1->Y (RR)	0.07183	0.23120	0.60938
	C0->Y (RR)	0.06464	0.22156	0.59519

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X3H7R	A0->Y (FF)	0.07321	0.21344	0.53722
	A1->Y (FF)	0.07571	0.21278	0.53035
	B0->Y (FF)	0.06497	0.20195	0.51851
	B1->Y (FF)	0.06736	0.20154	0.51288
	C0->Y (FF)	0.03686	0.16245	0.45948

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X3H7R	A0	0.00082	0.00090	0.00113
	A0	0.00007	0.00009	0.00010
	A0	-0.00013	-0.00013	-0.00011
	A0	0.00242	0.00252	0.00274
	A1	0.00082	0.00089	0.00111
	A1	0.00015	0.00015	0.00015
	A1	-0.00013	-0.00013	-0.00011
	A1	0.00261	0.00268	0.00290
	B0	0.00083	0.00092	0.00127
	B0	0.00008	0.00009	0.00010
	B0	-0.00005	-0.00004	-0.00001
	B0	0.00205	0.00216	0.00249
	B1	0.00083	0.00091	0.00125
	B1	0.00015	0.00015	0.00016
	B1	-0.00005	-0.00004	-0.00001
	B1	0.00219	0.00230	0.00262
	C0	0.00082	0.00095	0.00156
	C0	0.00015	0.00015	0.00015
	C0	0.00000	0.00003	0.00007
	C0	0.00196	0.00212	0.00268

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X3H7R	A0	0.00268	0.00282	0.00342
	A0	-0.00004	-0.00003	-0.00000
	A0	0.00014	0.00014	0.00014
	A0	0.00114	0.00126	0.00187
	A1	0.00287	0.00296	0.00333
	A1	-0.00009	-0.00009	-0.00006
	A1	0.00014	0.00014	0.00014
	A1	0.00112	0.00120	0.00159
	B0	0.00235	0.00249	0.00311
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00004	0.00005	0.00005
	B0	0.00112	0.00125	0.00187
	B1	0.00253	0.00262	0.00301
	B1	-0.00010	-0.00009	-0.00006
	B1	0.00004	0.00005	0.00005
	B1	0.00113	0.00122	0.00161
	C0	0.00221	0.00237	0.00301
	C0	-0.00004	-0.00003	-0.00003
	C0	-0.00003	-0.00002	0.00000
	C0	0.00100	0.00117	0.00181

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7R	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00031	0.00031	0.00031
	(A1 * B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00020	0.00021	0.00021
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00017	-0.00017	-0.00015
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00018	0.00019	0.00020
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7R	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * Y)	-0.00031	-0.00031	-0.00030
	(A1 * B0 * !C0 * !Y)	0.00017	0.00017	0.00018
	(A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(A1 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00020
	(A1 * !B0 * !B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00021	-0.00021	-0.00020
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00018
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00014
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00018	-0.00017	-0.00015
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7R	**(A0 * B0 * C0 * Y)**	-0.00011	-0.00010	-0.00009
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00029	0.00030	0.00030
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00017	-0.00016	-0.00015
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00023	0.00023	0.00024
	(A0 * !B0 * B1 * C0 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00029	0.00030	0.00030
	(A0 * !B0 * !B1 * !Y)	-0.00017	-0.00016	-0.00015
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00020	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7R	**(A0 * B0 * C0 * Y)**	0.00011	0.00011	0.00012
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00016	0.00017	0.00017
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !B0 * B1 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * !B1 * !Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * B0 * !C0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00021	-0.00019	-0.00016
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00021	-0.00019	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7R	**(A0 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C0 * Y)	0.00030	0.00030	0.00030
	(A0 * B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00012
	(A0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A0 * !B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00029	0.00030	0.00030
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00014	-0.00014	-0.00012
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * C0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00006	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7R	**(A0 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * B1 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * B1 * C0 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * B1 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A0 * B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * !B1 * !C0 * !Y)	0.00016	0.00017	0.00017
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00017
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00030	-0.00030	-0.00029
	(!A0 * A1 * B1 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00016	0.00017	0.00017
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !A1 * B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7R	**(A0 * B0 * C0 * Y)**	-0.00011	-0.00010	-0.00009
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00025	0.00025	0.00026
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00011
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * B0 * C0 * Y)	-0.00011	-0.00010	-0.00009
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00002
	(!A0 * A1 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X3H7R	**(A0 * B0 * C0 * Y)**	0.00011	0.00011	0.00012
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00016
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00021	-0.00019	-0.00018
	(!A0 * A1 * B0 * C0 * Y)	0.00011	0.00011	0.00012
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00021	-0.00019	-0.00018
	(!A0 * !A1 * B0 * C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X3H7R	(A0 * !B0 * !B1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * !B1 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !B0 * !B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !B1 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X3H7R	(A0 * !B0 * !B1 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !B0 * !B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * B0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00008	-0.00008	-0.00007

OA221X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA221 (Y = (A0 + A1) • (B0 + B1) • C0)

Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	0
x	1	0	0	x	0
x	1	x	1	0	0
x	1	x	1	1	1
x	1	1	x	0	0
x	1	1	x	1	1
1	x	0	0	x	0
1	x	x	1	0	0
1	x	x	1	1	1
1	x	1	x	0	0
1	x	1	x	1	1

Footprint

Cell Name	Area
OA221X4H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OA221X4H7R	0.00092	0.00090	0.00086	0.00083	0.00093	0.15451

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA221X4H7R	0.00000	0.41604	0.70206

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X4H7R	A0->Y (RR)	0.06968	0.22431	0.59285
	A1->Y (RR)	0.07344	0.22950	0.60094
	B0->Y (RR)	0.06484	0.22255	0.59658
	B1->Y (RR)	0.06804	0.22766	0.60612
	C0->Y (RR)	0.06113	0.21823	0.59120

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA221X4H7R	A0->Y (FF)	0.07100	0.21183	0.53592
	A1->Y (FF)	0.07365	0.21144	0.52926
	B0->Y (FF)	0.06304	0.20061	0.51742
	B1->Y (FF)	0.06544	0.20036	0.51227
	C0->Y (FF)	0.03528	0.16148	0.45935

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X4H7R	A0	0.00097	0.00107	0.00137
	A0	0.00010	0.00010	0.00010
	A0	-0.00015	-0.00015	-0.00012
	A0	0.00270	0.00282	0.00310
	A1	0.00097	0.00105	0.00135
	A1	0.00015	0.00016	0.00017
	A1	-0.00015	-0.00015	-0.00014
	A1	0.00293	0.00301	0.00328
	B0	0.00098	0.00109	0.00154
	B0	0.00009	0.00010	0.00012
	B0	-0.00005	-0.00004	-0.00002
	B0	0.00232	0.00242	0.00285
	B1	0.00098	0.00108	0.00151
	B1	0.00016	0.00016	0.00017
	B1	-0.00005	-0.00004	-0.00000
	B1	0.00246	0.00258	0.00300
	C0	0.00097	0.00113	0.00188
	C0	0.00016	0.00016	0.00016
	C0	0.00000	0.00004	0.00011
	C0	0.00217	0.00237	0.00307

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA221X4H7R	A0	0.00296	0.00313	0.00390
	A0	-0.00003	-0.00003	0.00002
	A0	0.00015	0.00015	0.00016
	A0	0.00130	0.00145	0.00222
	A1	0.00317	0.00329	0.00378
	A1	-0.00010	-0.00010	-0.00006
	A1	0.00015	0.00015	0.00016
	A1	0.00128	0.00138	0.00188
	B0	0.00262	0.00277	0.00356
	B0	-0.00003	-0.00003	-0.00003
	B0	0.00004	0.00005	0.00005
	B0	0.00130	0.00144	0.00224
	B1	0.00281	0.00292	0.00342
	B1	-0.00010	-0.00010	-0.00008
	B1	0.00004	0.00005	0.00006
	B1	0.00130	0.00140	0.00191
	C0	0.00246	0.00264	0.00345
	C0	-0.00003	-0.00003	-0.00002
	C0	-0.00004	-0.00003	0.00000
	C0	0.00117	0.00136	0.00217

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7R	**(A1 * B0 * C0 * Y)**	-0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00033	0.00033	0.00033
	(A1 * B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !Y)	0.00022	0.00023	0.00023
	(A1 * !B0 * B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00033	0.00033	0.00033
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00019	-0.00018	-0.00016
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00022	0.00023	0.00023
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00019	-0.00018	-0.00016
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7R	**(A1 * B0 * C0 * Y)**	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * B0 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	0.00001
	(A1 * B0 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	0.00000	0.00001
	(A1 * !B0 * B1 * C0 * Y)	0.00002	0.00003	0.00004
	(A1 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * Y)	-0.00033	-0.00033	-0.00033
	(A1 * !B0 * B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00001
	(A1 * !B0 * B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * !B0 * !B1 * C0 * !Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * B0 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !C0 * !Y)	-0.00020	-0.00018	-0.00014
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * !Y)	-0.00020	-0.00018	-0.00015
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7R	**(A0 * B0 * C0 * Y)**	-0.00012	-0.00011	-0.00010
	(A0 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00031	0.00032	0.00032
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00016
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00024	0.00025	0.00025
	(A0 * !B0 * B1 * C0 * Y)	-0.00012	-0.00011	-0.00009
	(A0 * !B0 * B1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * Y)	0.00031	0.00032	0.00032
	(A0 * !B0 * !B1 * !Y)	-0.00018	-0.00018	-0.00016
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00026
	(!A0 * B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !C0 * !Y)	-0.00000	-0.00001	-0.00000
	(!A0 * B0 * !C0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * B0 * !C0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00002
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00022	0.00023	0.00023
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7R	**(A0 * B0 * C0 * Y)**	0.00012	0.00013	0.00013
	(A0 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00018	0.00018	0.00018
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !Y) + (A0 * !B0 * B1 * !C0 * !Y)	-0.00025	-0.00025	-0.00024
	(A0 * !B0 * B1 * C0 * Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * B1 * C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * B1 * C0 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * !B0 * !B1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * B0 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * B0 * !C0 * !Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * !Y)	-0.00022	-0.00020	-0.00017
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * C0 * !Y)	-0.00022	-0.00021	-0.00018
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7R	**(A0 * B1 * C0 * Y)**	-0.00000	0.00000	0.00001
	(A0 * B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C0 * Y)	0.00031	0.00032	0.00032
	(A0 * B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * Y)	0.00032	0.00032	0.00032
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7R	**(A0 * B1 * C0 * Y)**	-0.00001	-0.00000	0.00000
	(A0 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C0 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(A0 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00019
	(A0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00018
	(!A0 * A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * Y)	-0.00032	-0.00032	-0.00031
	(!A0 * A1 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * !Y)	-0.00024	-0.00024	-0.00023
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * B1 * C0 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00018	0.00018	0.00019
	(!A0 * !A1 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7R	**(A0 * B0 * C0 * Y)**	-0.00012	-0.00011	-0.00010
	(A0 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00027	0.00027	0.00028
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00012
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A0 * A1 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * Y)	0.00027	0.00027	0.00028
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * C0 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B0 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00000	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00006	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA221X4H7R	**(A0 * B0 * C0 * Y)**	0.00012	0.00013	0.00013
	(A0 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !C0 * !Y) + (!A0 * A1 * B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00018
	(A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00018
	(!A0 * A1 * B0 * C0 * Y)	0.00012	0.00013	0.00013
	(!A0 * A1 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B0 * C0 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * A1 * B0 * C0 * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00018
	(!A0 * !A1 * B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B0 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B0 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !C0 * !Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !Y)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X4H7R	(A0 * !B0 * !B1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * !B1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !B0 * !B1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * !B1 * !Y)	0.00008	0.00009	0.00010
	(!A0 * !A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00001	-0.00000	0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA221X4H7R	(A0 * !B0 * !B1 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !B0 * !B1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !B0 * B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * B1 * !Y)	-0.00008	-0.00008	-0.00007

OA222X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X0P5H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X0P5H7R	0.00073	0.00077	0.00072	0.00071	0.00065	0.00079	0.04251

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X0P5H7R	0.00000	0.20928	0.33642

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X0P5H7R	A0->Y (RR)	0.09123	0.24506	0.61589
	A1->Y (RR)	0.08772	0.24017	0.60803
	B0->Y (RR)	0.08516	0.24182	0.61813
	B1->Y (RR)	0.08104	0.23610	0.60862
	C0->Y (RR)	0.07201	0.22575	0.59479
	C1->Y (RR)	0.06995	0.22170	0.58630

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X0P5H7R	A0->Y (FF)	0.08856	0.22312	0.54060
	A1->Y (FF)	0.08634	0.22475	0.55108
	B0->Y (FF)	0.07958	0.21099	0.52166
	B1->Y (FF)	0.07673	0.21175	0.53013
	C0->Y (FF)	0.06655	0.19376	0.49628
	C1->Y (FF)	0.06569	0.19584	0.50483

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X0P5H7R	A0	0.00035	0.00038	0.00046
	A0	0.00018	0.00018	0.00018
	A0	-0.00015	-0.00015	-0.00013
	A0	0.00217	0.00220	0.00225
	A1	0.00034	0.00039	0.00048
	A1	0.00013	0.00013	0.00013
	A1	-0.00015	-0.00015	-0.00014
	A1	0.00204	0.00208	0.00213
	B0	0.00036	0.00040	0.00053
	B0	0.00017	0.00018	0.00018
	B0	-0.00009	-0.00009	-0.00006
	B0	0.00186	0.00190	0.00200
	B1	0.00035	0.00041	0.00055
	B1	0.00012	0.00013	0.00013
	B1	-0.00009	-0.00009	-0.00006
	B1	0.00171	0.00176	0.00187
	C0	0.00036	0.00044	0.00071
	C0	0.00017	0.00017	0.00018
	C0	-0.00002	-0.00002	0.00001
	C0	0.00159	0.00166	0.00190
	C1	0.00036	0.00045	0.00072
	C1	0.00012	0.00013	0.00013
	C1	-0.00002	-0.00002	0.00001
	C1	0.00146	0.00153	0.00177

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X0P5H7R	A0	0.00233	0.00238	0.00254
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00016	0.00016	0.00016
	A0	0.00056	0.00060	0.00076
	A1	0.00221	0.00228	0.00254
	A1	-0.00005	-0.00005	-0.00002
	A1	0.00016	0.00016	0.00016
	A1	0.00057	0.00065	0.00091
	B0	0.00205	0.00210	0.00227
	B0	-0.00009	-0.00009	-0.00007
	B0	0.00009	0.00009	0.00010
	B0	0.00054	0.00060	0.00076
	B1	0.00191	0.00199	0.00227
	B1	-0.00005	-0.00005	-0.00003
	B1	0.00007	0.00009	0.00011
	B1	0.00057	0.00065	0.00093
	C0	0.00168	0.00175	0.00195
	C0	-0.00009	-0.00009	-0.00009
	C0	0.00001	0.00002	0.00003
	C0	0.00042	0.00049	0.00069
	C1	0.00159	0.00168	0.00198
	C1	-0.00005	-0.00005	-0.00004
	C1	0.00002	0.00002	0.00003
	C1	0.00047	0.00055	0.00086

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7R	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00007	-0.00007
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00026	0.00027	0.00027
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00026	0.00027	0.00027
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00014	-0.00013	-0.00012
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00026	0.00027	0.00027
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !B1 * !Y)	-0.00013	-0.00013	-0.00012
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7R	**(A1 * B1 * C1 * Y)**	0.00008	0.00008	0.00008
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B1 * C0 * !C1 * Y)	0.00008	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00014
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * B0 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * !Y)	0.00013	0.00013	0.00014
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00019	-0.00017	-0.00015
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00017	-0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7R	**(A0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00028	0.00028	0.00028
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00018	0.00019	0.00019
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00017	0.00017

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7R	**(A0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B1 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * !B1 * C1 * !Y)	0.00014	0.00015	0.00015
	(A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00017	-0.00015	-0.00014
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00015	-0.00014
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7R	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00007	-0.00006
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00025	0.00025	0.00025
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00025	0.00025	0.00025
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00025	0.00025	0.00026
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00025	0.00025	0.00026
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00011
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7R	**(A1 * B1 * C1 * Y)**	0.00008	0.00008	0.00008
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00014
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * !A1 * B1 * C1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00014
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !A1 * B1 * C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7R	**(A1 * B0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00019
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7R	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00014
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00013
	(!A0 * !A1 * B0 * C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7R	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00007	-0.00007
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00026	0.00026	0.00027
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00010	0.00010	0.00010

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7R	**(A1 * B1 * C1 * Y)**	0.00008	0.00008	0.00008
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00010	-0.00010
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B1 * C1 * Y)	0.00008	0.00008	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7R	**(A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00018
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00006
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P5H7R	**(A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

OA222X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X0P7H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X0P7H7R	0.00074	0.00077	0.00071	0.00071	0.00065	0.00079	0.04817

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X0P7H7R	0.00000	0.22077	0.34337

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X0P7H7R	A0->Y (RR)	0.09072	0.24521	0.61655
	A1->Y (RR)	0.08728	0.24037	0.60869
	B0->Y (RR)	0.08456	0.24197	0.61946
	B1->Y (RR)	0.08049	0.23630	0.60966
	C0->Y (RR)	0.07144	0.22600	0.59645
	C1->Y (RR)	0.06941	0.22197	0.58774

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X0P7H7R	A0->Y (FF)	0.08790	0.22325	0.54118
	A1->Y (FF)	0.08567	0.22489	0.55127
	B0->Y (FF)	0.07884	0.21107	0.52237
	B1->Y (FF)	0.07608	0.21192	0.53105
	C0->Y (FF)	0.06587	0.19391	0.49706
	C1->Y (FF)	0.06500	0.19599	0.50564

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X0P7H7R	A0	0.00037	0.00041	0.00050
	A0	0.00017	0.00017	0.00018
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00219	0.00223	0.00229
	A1	0.00037	0.00042	0.00050
	A1	0.00013	0.00013	0.00013
	A1	-0.00015	-0.00015	-0.00014
	A1	0.00206	0.00211	0.00217
	B0	0.00038	0.00043	0.00056
	B0	0.00017	0.00017	0.00017
	B0	-0.00008	-0.00008	-0.00006
	B0	0.00189	0.00193	0.00204
	B1	0.00038	0.00044	0.00060
	B1	0.00013	0.00013	0.00013
	B1	-0.00009	-0.00008	-0.00006
	B1	0.00173	0.00178	0.00190
	C0	0.00038	0.00047	0.00075
	C0	0.00017	0.00017	0.00017
	C0	-0.00002	-0.00001	0.00001
	C0	0.00161	0.00169	0.00194
	C1	0.00039	0.00047	0.00076
	C1	0.00013	0.00013	0.00013
	C1	-0.00002	-0.00002	0.00001
	C1	0.00148	0.00156	0.00181

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X0P7H7R	A0	0.00236	0.00241	0.00258
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00016	0.00016	0.00016
	A0	0.00058	0.00063	0.00080
	A1	0.00223	0.00231	0.00259
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00016	0.00016	0.00016
	A1	0.00060	0.00068	0.00096
	B0	0.00207	0.00213	0.00231
	B0	-0.00009	-0.00009	-0.00007
	B0	0.00006	0.00008	0.00011
	B0	0.00057	0.00063	0.00080
	B1	0.00194	0.00202	0.00232
	B1	-0.00005	-0.00004	-0.00003
	B1	0.00007	0.00008	0.00011
	B1	0.00060	0.00068	0.00098
	C0	0.00171	0.00177	0.00199
	C0	-0.00009	-0.00009	-0.00008
	C0	0.00000	0.00002	0.00003
	C0	0.00045	0.00052	0.00073
	C1	0.00161	0.00170	0.00202
	C1	-0.00005	-0.00005	-0.00004
	C1	0.00001	0.00002	0.00003
	C1	0.00050	0.00059	0.00091

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7R	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00007	-0.00007
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00027	0.00027	0.00028
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00027	0.00027	0.00028
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00014	-0.00013	-0.00012
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00022
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00027	0.00027	0.00028
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * !B1 * !Y)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7R	**(A1 * B1 * C1 * Y)**	0.00008	0.00008	0.00008
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00027	-0.00027	-0.00026
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00014
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A1 * B0 * !B1 * C1 * Y)	0.00008	0.00008	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00027	-0.00027	-0.00026
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00027	-0.00027	-0.00026
	(A1 * !B0 * !B1 * !Y)	0.00013	0.00014	0.00014
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00015
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7R	**(A0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00028	0.00028	0.00028
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00020
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00018	0.00019	0.00019
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00017	0.00017

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7R	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00018
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00018	-0.00018
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00015	-0.00014
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7R	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00007	-0.00006
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00025	0.00025	0.00025
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00025	0.00025	0.00025
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00025	0.00025	0.00026
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00011
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00011
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7R	**(A1 * B1 * C1 * Y)**	0.00008	0.00008	0.00008
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00014
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * !A1 * B1 * C1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00014
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * B1 * C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00009	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7R	**(A1 * B0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7R	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00014
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00013
	(!A0 * !A1 * B0 * C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7R	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00007	-0.00007
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00026	0.00026	0.00027
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00010	0.00010	0.00010

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7R	**(A1 * B1 * C1 * Y)**	0.00008	0.00008	0.00008
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B1 * C1 * Y)	0.00008	0.00008	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7R	**(A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X0P7H7R	**(A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

OA222X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X1H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X1H7R	0.00064	0.00071	0.00069	0.00068	0.00072	0.00086	0.05751

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X1H7R	0.00000	0.23733	0.35432

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X1H7R	A0->Y (RR)	0.08561	0.24193	0.61529
	A1->Y (RR)	0.08287	0.23737	0.60733
	B0->Y (RR)	0.08121	0.23951	0.61793
	B1->Y (RR)	0.07683	0.23345	0.60776
	C0->Y (RR)	0.07162	0.22742	0.59984
	C1->Y (RR)	0.07062	0.22435	0.59274

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X1H7R	A0->Y (FF)	0.08330	0.22237	0.54604
	A1->Y (FF)	0.08151	0.22434	0.55666
	B0->Y (FF)	0.07551	0.21069	0.52683
	B1->Y (FF)	0.07198	0.21079	0.53480
	C0->Y (FF)	0.06595	0.19768	0.50771
	C1->Y (FF)	0.06593	0.20046	0.51726

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X1H7R	A0	0.00039	0.00043	0.00053
	A0	0.00017	0.00017	0.00017
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00218	0.00223	0.00232
	A1	0.00037	0.00042	0.00053
	A1	0.00011	0.00012	0.00013
	A1	-0.00015	-0.00014	-0.00014
	A1	0.00204	0.00209	0.00217
	B0	0.00038	0.00043	0.00059
	B0	0.00017	0.00017	0.00017
	B0	-0.00008	-0.00008	-0.00006
	B0	0.00186	0.00190	0.00203
	B1	0.00039	0.00044	0.00062
	B1	0.00012	0.00012	0.00013
	B1	-0.00008	-0.00008	-0.00006
	B1	0.00172	0.00177	0.00192
	C0	0.00037	0.00046	0.00075
	C0	0.00016	0.00017	0.00017
	C0	-0.00001	-0.00001	0.00002
	C0	0.00157	0.00165	0.00192
	C1	0.00037	0.00046	0.00075
	C1	0.00012	0.00012	0.00013
	C1	-0.00001	-0.00001	0.00002
	C1	0.00150	0.00157	0.00183

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X1H7R	A0	0.00233	0.00238	0.00258
	A0	-0.00008	-0.00008	-0.00007
	A0	0.00016	0.00016	0.00016
	A0	0.00057	0.00062	0.00083
	A1	0.00222	0.00229	0.00262
	A1	-0.00004	-0.00004	-0.00002
	A1	0.00016	0.00016	0.00016
	A1	0.00061	0.00069	0.00101
	B0	0.00205	0.00211	0.00231
	B0	-0.00008	-0.00008	-0.00007
	B0	0.00008	0.00009	0.00011
	B0	0.00058	0.00063	0.00084
	B1	0.00190	0.00198	0.00232
	B1	-0.00004	-0.00004	-0.00002
	B1	0.00007	0.00009	0.00010
	B1	0.00058	0.00066	0.00099
	C0	0.00179	0.00185	0.00208
	C0	-0.00008	-0.00008	-0.00002
	C0	0.00000	0.00002	0.00054
	C0	0.00055	0.00062	0.00085
	C1	0.00170	0.00179	0.00213
	C1	-0.00004	-0.00004	-0.00003
	C1	0.00001	0.00001	0.00003
	C1	0.00055	0.00064	0.00099

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7R	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00007	-0.00006
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00025	0.00025	0.00025
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00024	0.00025	0.00025
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * !B1 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00021	0.00022	0.00022
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7R	**(A1 * B1 * C1 * Y)**	0.00008	0.00008	0.00008
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C1 * Y)	-0.00025	-0.00025	-0.00024
	(A1 * B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00025	-0.00025	-0.00024
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00025	-0.00025	-0.00024
	(A1 * B0 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00025	-0.00025	-0.00024
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * !B1 * !Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00022	-0.00020	-0.00018
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00022	-0.00020	-0.00018
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00022	-0.00021	-0.00019
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00018
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7R	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00025	0.00025	0.00025
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00025	0.00025	0.00025
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00019
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00025	0.00025	0.00025
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00025	0.00025	0.00025
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00019
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00018	0.00019	0.00019
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00018	0.00018	0.00019
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00017

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7R	**(A0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00018
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00018
	(A0 * !B0 * !B1 * C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00018
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00015	-0.00014
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00017	-0.00015	-0.00013
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7R	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00024	0.00025	0.00025
	(A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00024	0.00024	0.00025
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00020	0.00021	0.00021
	(A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00024	0.00025	0.00025
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00024	0.00024	0.00025
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7R	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00015
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00016
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00020
	(A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00015
	(!A0 * !A1 * B1 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7R	**(A1 * B0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00026	0.00026	0.00026
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00020	0.00021	0.00021
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00012
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * C1 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7R	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00020
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00020
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B0 * C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7R	**(A1 * B1 * C1 * Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00024	0.00025	0.00025
	(A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00024	0.00025	0.00025
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00007	0.00007	0.00007
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00020	-0.00019	-0.00019
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00006	0.00007	0.00007
	(A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00024	0.00024	0.00025
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00024	0.00025	0.00025
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00005	0.00006	0.00007
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00006	0.00006	0.00007

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7R	**(A1 * B1 * C1 * Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * !B1 * C1 * Y)	0.00008	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !B1 * C1 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00019	0.00020	0.00020
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00007	-0.00007	-0.00006
	(A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * B1 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7R	**(A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00032	0.00033	0.00033
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00032	0.00033	0.00033
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00027	-0.00026	-0.00026
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00006
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00032	0.00033	0.00033
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00032	0.00032	0.00033
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00025	-0.00024	-0.00023
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1H7R	**(A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00033	-0.00032	-0.00032
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * !B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00026	0.00027	0.00027
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00033	-0.00032	-0.00032
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00033	-0.00032	-0.00032
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00026	0.00027	0.00027
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00026	0.00026	0.00027
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00026	0.00027	0.00027
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004

OA222X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X1P4H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X1P4H7R	0.00076	0.00077	0.00072	0.00071	0.00065	0.00079	0.06562

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X1P4H7R	0.00000	0.25300	0.36388

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X1P4H7R	A0->Y (RR)	0.09040	0.24697	0.62104
	A1->Y (RR)	0.08681	0.24205	0.61358
	B0->Y (RR)	0.08411	0.24383	0.62440
	B1->Y (RR)	0.08003	0.23815	0.61514
	C0->Y (RR)	0.07101	0.22798	0.60163
	C1->Y (RR)	0.06897	0.22407	0.59397

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X1P4H7R	A0->Y (FF)	0.08744	0.22680	0.55131
	A1->Y (FF)	0.08502	0.22835	0.56179
	B0->Y (FF)	0.07831	0.21461	0.53336
	B1->Y (FF)	0.07545	0.21547	0.54127
	C0->Y (FF)	0.06542	0.19758	0.50767
	C1->Y (FF)	0.06458	0.19979	0.51678

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X1P4H7R	A0	0.00047	0.00052	0.00062
	A0	0.00016	0.00016	0.00017
	A0	-0.00014	-0.00014	-0.00012
	A0	0.00227	0.00232	0.00240
	A1	0.00047	0.00052	0.00062
	A1	0.00011	0.00012	0.00012
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00214	0.00219	0.00227
	B0	0.00048	0.00053	0.00069
	B0	0.00016	0.00016	0.00019
	B0	-0.00008	-0.00008	-0.00004
	B0	0.00195	0.00201	0.00215
	B1	0.00048	0.00053	0.00070
	B1	0.00012	0.00012	0.00012
	B1	-0.00008	-0.00008	-0.00006
	B1	0.00181	0.00186	0.00201
	C0	0.00048	0.00056	0.00087
	C0	0.00016	0.00016	0.00016
	C0	-0.00001	-0.00001	0.00002
	C0	0.00167	0.00177	0.00206
	C1	0.00048	0.00057	0.00088
	C1	0.00012	0.00012	0.00012
	C1	-0.00001	-0.00001	0.00002
	C1	0.00156	0.00164	0.00193

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X1P4H7R	A0	0.00244	0.00249	0.00270
	A0	-0.00008	-0.00008	-0.00006
	A0	0.00015	0.00015	0.00015
	A0	0.00067	0.00072	0.00093
	A1	0.00231	0.00239	0.00273
	A1	-0.00004	-0.00004	-0.00001
	A1	0.00015	0.00015	0.00015
	A1	0.00069	0.00077	0.00112
	B0	0.00215	0.00221	0.00242
	B0	-0.00008	-0.00008	-0.00006
	B0	0.00008	0.00008	0.00010
	B0	0.00066	0.00072	0.00094
	B1	0.00202	0.00210	0.00245
	B1	-0.00004	-0.00004	-0.00002
	B1	0.00008	0.00008	0.00010
	B1	0.00070	0.00078	0.00113
	C0	0.00179	0.00185	0.00210
	C0	-0.00008	-0.00008	-0.00007
	C0	0.00001	0.00001	0.00003
	C0	0.00054	0.00061	0.00086
	C1	0.00169	0.00178	0.00216
	C1	-0.00004	-0.00003	-0.00002
	C1	0.00001	0.00001	0.00002
	C1	0.00059	0.00068	0.00106

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7R	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00007	-0.00007
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00028	0.00028	0.00028
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00028	0.00028	0.00029
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00014	-0.00013	-0.00012
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00023
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00028	0.00028	0.00029
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !B1 * !Y)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7R	**(A1 * B1 * C1 * Y)**	0.00008	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B1 * C0 * !C1 * Y)	0.00008	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * !B1 * C1 * Y)	0.00008	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * !B1 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00020	-0.00018	-0.00016
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7R	**(A0 * B1 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00028	0.00028	0.00028
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00019
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00019
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00018	0.00018	0.00019
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00018	0.00019	0.00019
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00019
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00017

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7R	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * Y)	-0.00028	-0.00028	-0.00027
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00018
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00018	-0.00018
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7R	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00007	-0.00007
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00025	0.00025	0.00025
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00025	0.00025	0.00026
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00025	0.00025	0.00026
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00025	0.00025	0.00026
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00011
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7R	**(A1 * B1 * C1 * Y)**	0.00008	0.00008	0.00008
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00025	-0.00025	-0.00024
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00014
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * B1 * C1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00014
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !A1 * B1 * C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00010	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7R	**(A1 * B0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7R	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00014
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !A1 * B0 * C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7R	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00007	-0.00007
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00026	0.00026	0.00027
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00010	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00010	0.00011
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00010	0.00010	0.00010

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7R	**(A1 * B1 * C1 * Y)**	0.00008	0.00008	0.00008
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B1 * C1 * Y)	0.00008	0.00008	0.00009
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7R	**(A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00027	0.00027	0.00028
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00027	0.00027	0.00028
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00006
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00027	0.00027	0.00028
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X1P4H7R	**(A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00028	-0.00027	-0.00027
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00028	-0.00027	-0.00027
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005

OA222X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X2H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X2H7R	0.00079	0.00077	0.00067	0.00072	0.00066	0.00079	0.07710

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X2H7R	0.00000	0.27677	0.37831

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X2H7R	A0->Y (RR)	0.09244	0.25011	0.62575
	A1->Y (RR)	0.08864	0.24506	0.61795
	B0->Y (RR)	0.08539	0.24659	0.62931
	B1->Y (RR)	0.08191	0.24164	0.62070
	C0->Y (RR)	0.07290	0.23154	0.60766
	C1->Y (RR)	0.07080	0.22757	0.60000

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X2H7R	A0->Y (FF)	0.08905	0.22833	0.55094
	A1->Y (FF)	0.08644	0.22981	0.56150
	B0->Y (FF)	0.07913	0.21581	0.53289
	B1->Y (FF)	0.07705	0.21735	0.54206
	C0->Y (FF)	0.06695	0.19957	0.50840
	C1->Y (FF)	0.06616	0.20197	0.51794

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X2H7R	A0	0.00056	0.00060	0.00073
	A0	0.00015	0.00016	0.00016
	A0	-0.00014	-0.00013	-0.00012
	A0	0.00238	0.00244	0.00254
	A1	0.00056	0.00061	0.00073
	A1	0.00010	0.00011	0.00012
	A1	-0.00014	-0.00013	-0.00012
	A1	0.00224	0.00229	0.00239
	B0	0.00057	0.00063	0.00081
	B0	0.00015	0.00016	0.00018
	B0	-0.00008	-0.00008	-0.00005
	B0	0.00205	0.00210	0.00226
	B1	0.00057	0.00063	0.00083
	B1	0.00011	0.00011	0.00011
	B1	-0.00007	-0.00007	-0.00005
	B1	0.00192	0.00197	0.00213
	C0	0.00057	0.00066	0.00100
	C0	0.00015	0.00015	0.00016
	C0	-0.00000	-0.00000	0.00004
	C0	0.00178	0.00187	0.00219
	C1	0.00057	0.00066	0.00101
	C1	0.00011	0.00011	0.00011
	C1	-0.00000	-0.00000	0.00003
	C1	0.00165	0.00174	0.00205

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X2H7R	A0	0.00253	0.00259	0.00282
	A0	-0.00007	-0.00007	-0.00005
	A0	0.00014	0.00014	0.00016
	A0	0.00073	0.00079	0.00103
	A1	0.00239	0.00248	0.00287
	A1	-0.00003	-0.00003	-0.00001
	A1	0.00015	0.00015	0.00015
	A1	0.00077	0.00086	0.00125
	B0	0.00223	0.00229	0.00254
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00008	0.00008	0.00009
	B0	0.00076	0.00082	0.00107
	B1	0.00211	0.00220	0.00260
	B1	-0.00003	-0.00003	-0.00002
	B1	0.00008	0.00008	0.00009
	B1	0.00079	0.00088	0.00127
	C0	0.00188	0.00195	0.00223
	C0	-0.00007	-0.00007	-0.00006
	C0	0.00000	0.00001	0.00002
	C0	0.00064	0.00071	0.00098
	C1	0.00179	0.00189	0.00230
	C1	-0.00003	-0.00003	-0.00001
	C1	0.00000	0.00000	0.00001
	C1	0.00069	0.00079	0.00120

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7R	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00007	-0.00007
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00014
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00024
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * !B1 * !Y)	-0.00015	-0.00014	-0.00014
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7R	**(A1 * B1 * C1 * Y)**	0.00008	0.00009	0.00009
	(A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00009
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * !B1 * C1 * Y)	0.00008	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00008	0.00009	0.00009
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !B1 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00018
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00019	-0.00017
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00021	-0.00020	-0.00018
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00018
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7R	**(A0 * B1 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00028	0.00029	0.00029
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00029	0.00029	0.00029
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00019
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00029	0.00029	0.00029
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00029	0.00029	0.00029
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00018	0.00019	0.00019
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00018	0.00019	0.00019
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00017	0.00018
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00016	0.00017	0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7R	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00017	-0.00015	-0.00014
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00015	-0.00014
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7R	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00007	-0.00006
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00024	0.00024	0.00024
	(A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00012
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00024	0.00024	0.00025
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00024	0.00024	0.00025
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00011
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7R	**(A1 * B1 * C1 * Y)**	0.00008	0.00008	0.00008
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00024	-0.00024	-0.00023
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00021	-0.00020	-0.00020
	(A0 * !A1 * B1 * C1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !A1 * B1 * C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7R	**(A1 * B0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00011	-0.00010	-0.00010
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00012
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00019
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7R	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00014
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00014
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00013
	(!A0 * !A1 * B0 * C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7R	**(A1 * B1 * C1 * Y)**	-0.00008	-0.00007	-0.00007
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * Y)	0.00027	0.00027	0.00027
	(A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00017	-0.00016	-0.00016
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00010	0.00010	0.00011

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7R	**(A1 * B1 * C1 * Y)**	0.00008	0.00008	0.00008
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00027	-0.00026	-0.00026
	(A1 * B0 * !B1 * C1 * Y)	0.00008	0.00008	0.00009
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00027	-0.00026	-0.00026
	(A1 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00011
	(A0 * !A1 * B1 * C1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00027	-0.00026	-0.00026
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7R	**(A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00027	0.00027	0.00028
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00006
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00027	0.00027	0.00028
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00006
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X2H7R	**(A1 * B1 * C0 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00028	-0.00027	-0.00027
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00003
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004

OA222X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X3H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X3H7R	0.00086	0.00086	0.00078	0.00080	0.00075	0.00089	0.12007

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X3H7R	0.00000	0.40104	0.57371

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X3H7R	A0->Y (RR)	0.08616	0.24475	0.62195
	A1->Y (RR)	0.08207	0.23938	0.61406
	B0->Y (RR)	0.08044	0.24298	0.62825
	B1->Y (RR)	0.07659	0.23752	0.61896
	C0->Y (RR)	0.06933	0.22929	0.60723
	C1->Y (RR)	0.06699	0.22499	0.59901

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X3H7R	A0->Y (FF)	0.08118	0.22267	0.54701
	A1->Y (FF)	0.07829	0.22334	0.55551
	B0->Y (FF)	0.07308	0.21195	0.53134
	B1->Y (FF)	0.07052	0.21261	0.53855
	C0->Y (FF)	0.06232	0.19745	0.50921
	C1->Y (FF)	0.06117	0.19909	0.51705

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X3H7R	A0	0.00082	0.00089	0.00110
	A0	0.00021	0.00021	0.00022
	A0	-0.00018	-0.00018	-0.00015
	A0	0.00297	0.00303	0.00323
	A1	0.00082	0.00091	0.00113
	A1	0.00015	0.00015	0.00016
	A1	-0.00019	-0.00018	-0.00016
	A1	0.00277	0.00286	0.00306
	B0	0.00084	0.00092	0.00125
	B0	0.00021	0.00021	0.00021
	B0	-0.00009	-0.00009	-0.00005
	B0	0.00260	0.00267	0.00297
	B1	0.00084	0.00093	0.00127
	B1	0.00015	0.00015	0.00016
	B1	-0.00010	-0.00009	-0.00006
	B1	0.00240	0.00249	0.00279
	C0	0.00084	0.00096	0.00152
	C0	0.00021	0.00021	0.00021
	C0	-0.00000	0.00000	0.00007
	C0	0.00226	0.00237	0.00290
	C1	0.00085	0.00097	0.00152
	C1	0.00015	0.00015	0.00017
	C1	-0.00000	0.00000	0.00004
	C1	0.00210	0.00222	0.00274

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X3H7R	A0	0.00319	0.00329	0.00369
	A0	-0.00009	-0.00009	-0.00006
	A0	0.00019	0.00019	0.00020
	A0	0.00110	0.00119	0.00159
	A1	0.00301	0.00314	0.00378
	A1	-0.00003	-0.00003	0.00000
	A1	0.00019	0.00019	0.00019
	A1	0.00112	0.00125	0.00189
	B0	0.00287	0.00296	0.00337
	B0	-0.00010	-0.00010	-0.00007
	B0	0.00008	0.00010	0.00013
	B0	0.00111	0.00120	0.00161
	B1	0.00270	0.00283	0.00347
	B1	-0.00004	-0.00003	0.00002
	B1	0.00007	0.00010	0.00012
	B1	0.00115	0.00127	0.00192
	C0	0.00246	0.00256	0.00301
	C0	-0.00009	-0.00009	-0.00008
	C0	0.00000	0.00000	0.00002
	C0	0.00100	0.00109	0.00154
	C1	0.00233	0.00246	0.00314
	C1	-0.00004	-0.00003	-0.00001
	C1	0.00000	0.00000	0.00002
	C1	0.00103	0.00117	0.00185

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7R	**(A1 * B1 * C1 * Y)**	-0.00011	-0.00010	-0.00008
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B1 * C0 * !C1 * Y)	-0.00011	-0.00010	-0.00008
	(A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00015
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00024
	(A1 * B0 * !B1 * C1 * Y)	-0.00011	-0.00010	-0.00008
	(A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * !B1 * !Y)	-0.00017	-0.00016	-0.00015
	(A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00020	0.00021	0.00021
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00020	0.00021	0.00022
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00021	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7R	**(A1 * B1 * C1 * Y)**	0.00011	0.00011	0.00012
	(A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00001	-0.00000
	(A1 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * B1 * C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * B0 * !B1 * C1 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * !B0 * !B1 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00024	-0.00023	-0.00023
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00021	-0.00019	-0.00018
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00019	-0.00018
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00021	-0.00019	-0.00017
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7R	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C1 * Y)	0.00031	0.00031	0.00031
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00031	0.00031	0.00031
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00015
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00021	0.00022	0.00023
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00031	0.00031	0.00031
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00031	0.00031	0.00031
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00015
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00022
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00017	-0.00016	-0.00015
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00021	0.00021	0.00022
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00015
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00021	0.00021	0.00022
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00016	-0.00015
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7R	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00031	-0.00031	-0.00030
	(A0 * B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00031	-0.00031	-0.00031
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00019	-0.00017	-0.00015
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00015
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7R	**(A1 * B1 * C1 * Y)**	-0.00011	-0.00010	-0.00008
	(A1 * B1 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C1 * Y)	0.00027	0.00028	0.00028
	(A1 * B1 * C0 * !C1 * Y)	-0.00011	-0.00010	-0.00008
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00027	0.00028	0.00028
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00023	0.00023
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00013	-0.00013	-0.00011
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00024	0.00024	0.00025
	(A0 * !A1 * B1 * C1 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00027	0.00028	0.00028
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00027	0.00028	0.00028
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00010	0.00010	0.00011

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7R	**(A1 * B1 * C1 * Y)**	0.00010	0.00011	0.00011
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B1 * C0 * !C1 * Y)	0.00011	0.00011	0.00012
	(A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00016	0.00016
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00022	-0.00020
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00013	0.00014	0.00014
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * !A1 * B1 * C1 * Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00015	0.00016	0.00016
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00021	-0.00018
	(!A0 * !A1 * B1 * C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7R	**(A1 * B0 * C1 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C1 * Y)	0.00027	0.00027	0.00027
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00014	-0.00013	-0.00012
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * C1 * Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00015	-0.00014	-0.00012
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C1 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00014	-0.00014	-0.00012
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00012
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7R	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00020
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00015
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00021	-0.00021	-0.00020
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !A1 * B0 * C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7R	**(A1 * B1 * C1 * Y)**	-0.00011	-0.00010	-0.00008
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00001	0.00000
	(A1 * B1 * C1 * Y)	0.00028	0.00028	0.00029
	(A1 * B0 * !B1 * C1 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00018	-0.00017
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00011
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00021	-0.00020	-0.00020
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00010	0.00010	0.00011
	(A0 * !A1 * B1 * C1 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00028	0.00029	0.00029
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00028	0.00029	0.00029
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00010	0.00010	0.00010

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7R	**(A1 * B1 * C1 * Y)**	0.00011	0.00011	0.00012
	(A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !B1 * C1 * Y)	0.00010	0.00011	0.00011
	(A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !B1 * C1 * !Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B1 * C1 * Y)	0.00010	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B1 * C1 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00011	0.00011	0.00012
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00000	0.00001	0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7R	**(A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * Y)	0.00031	0.00032	0.00032
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00031	0.00032	0.00032
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00032	0.00032	0.00032
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00032	0.00032	0.00032
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X3H7R	**(A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * Y)	-0.00032	-0.00032	-0.00031
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00032	-0.00032	-0.00031
	(A1 * !B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00005	-0.00005
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00032	-0.00032	-0.00031
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00006	-0.00005	-0.00005

OA222X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA222 (Y = (A0 + A1) • (B0 + B1) • (C0 + C1))

Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	0
x	1	0	0	x	x	0
x	1	x	1	0	0	0
x	1	x	1	x	1	1
x	1	x	1	1	x	1
x	1	1	x	0	0	0
x	1	1	x	x	1	1
x	1	1	x	1	x	1
1	x	0	0	x	x	0
1	x	x	1	0	0	0
1	x	x	1	x	1	1
1	x	x	1	1	x	1
1	x	1	x	0	0	0
1	x	1	x	x	1	1
1	x	1	x	1	x	1

Footprint

Cell Name	Area
OA222X4H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**C0**	**C1**	**Y**
OA222X4H7R	0.00089	0.00092	0.00084	0.00086	0.00080	0.00096	0.15451

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA222X4H7R	0.00000	0.49090	0.70333

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X4H7R	A0->Y (RR)	0.08117	0.24014	0.61831
	A1->Y (RR)	0.07745	0.23506	0.60961
	B0->Y (RR)	0.07597	0.23875	0.62345
	B1->Y (RR)	0.07221	0.23338	0.61447
	C0->Y (RR)	0.06546	0.22556	0.60273
	C1->Y (RR)	0.06305	0.22127	0.59486

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA222X4H7R	A0->Y (FF)	0.07837	0.22094	0.54573
	A1->Y (FF)	0.07573	0.22166	0.55409
	B0->Y (FF)	0.07058	0.21037	0.53013
	B1->Y (FF)	0.06795	0.21084	0.53699
	C0->Y (FF)	0.05998	0.19604	0.50843
	C1->Y (FF)	0.05864	0.19744	0.51570

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X4H7R	A0	0.00096	0.00104	0.00133
	A0	0.00023	0.00023	0.00023
	A0	-0.00021	-0.00021	-0.00017
	A0	0.00328	0.00335	0.00362
	A1	0.00095	0.00105	0.00135
	A1	0.00016	0.00016	0.00019
	A1	-0.00020	-0.00020	-0.00017
	A1	0.00306	0.00316	0.00344
	B0	0.00097	0.00106	0.00150
	B0	0.00023	0.00023	0.00023
	B0	-0.00011	-0.00010	-0.00005
	B0	0.00287	0.00296	0.00336
	B1	0.00098	0.00108	0.00153
	B1	0.00016	0.00016	0.00016
	B1	-0.00010	-0.00010	-0.00006
	B1	0.00265	0.00275	0.00316
	C0	0.00098	0.00111	0.00182
	C0	0.00022	0.00023	0.00023
	C0	0.00000	0.00001	0.00006
	C0	0.00249	0.00263	0.00329
	C1	0.00097	0.00112	0.00183
	C1	0.00016	0.00016	0.00019
	C1	0.00000	0.00001	0.00007
	C1	0.00230	0.00246	0.00312

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA222X4H7R	A0	0.00356	0.00366	0.00419
	A0	-0.00010	-0.00010	-0.00006
	A0	0.00022	0.00022	0.00022
	A0	0.00130	0.00140	0.00194
	A1	0.00336	0.00351	0.00433
	A1	-0.00003	-0.00003	0.00002
	A1	0.00022	0.00022	0.00022
	A1	0.00131	0.00146	0.00229
	B0	0.00320	0.00330	0.00384
	B0	-0.00010	-0.00009	-0.00006
	B0	0.00009	0.00011	0.00014
	B0	0.00129	0.00139	0.00194
	B1	0.00300	0.00315	0.00399
	B1	-0.00003	-0.00003	0.00002
	B1	0.00010	0.00010	0.00014
	B1	0.00133	0.00148	0.00232
	C0	0.00273	0.00285	0.00344
	C0	-0.00010	-0.00010	-0.00008
	C0	-0.00001	-0.00001	0.00002
	C0	0.00117	0.00129	0.00187
	C1	0.00257	0.00274	0.00362
	C1	-0.00003	-0.00003	0.00000
	C1	-0.00001	-0.00001	0.00001
	C1	0.00121	0.00137	0.00225

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7R	**(A1 * B1 * C1 * Y)**	-0.00012	-0.00011	-0.00010
	(A1 * B1 * C1 * Y)	-0.00002	-0.00001	-0.00000
	(A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * Y)	0.00030	0.00031	0.00031
	(A1 * B1 * C0 * !C1 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00030	0.00031	0.00031
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00015
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00002
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00025	0.00025	0.00025
	(A1 * B0 * !B1 * C1 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00030	0.00031	0.00031
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00030	0.00031	0.00032
	(A1 * !B0 * !B1 * !Y)	-0.00018	-0.00017	-0.00015
	(A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00021	0.00022	0.00022
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7R	**(A1 * B1 * C1 * Y)**	0.00012	0.00013	0.00013
	(A1 * B1 * C1 * Y)	0.00000	0.00001	0.00002
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * Y)	-0.00031	-0.00030	-0.00030
	(A1 * B1 * C0 * !C1 * Y)	0.00012	0.00013	0.00013
	(A1 * B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y) + (A1 * !B0 * B1 * !C0 * !C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !B1 * C1 * Y)	0.00012	0.00013	0.00013
	(A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00013	0.00013	0.00014
	(A1 * B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * Y)	-0.00031	-0.00030	-0.00030
	(A1 * !B0 * !B1 * !Y)	0.00017	0.00017	0.00018
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00025	-0.00025	-0.00024
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * !Y)	-0.00022	-0.00020	-0.00019
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00019
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00022	-0.00021	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7R	**(A0 * B1 * C1 * Y)**	-0.00001	-0.00000	0.00000
	(A0 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C1 * Y)	0.00033	0.00033	0.00033
	(A0 * B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C0 * !C1 * Y)	0.00033	0.00033	0.00033
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00024
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00032	0.00033	0.00033
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00033	0.00033	0.00033
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00018	-0.00017	-0.00016
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00000	-0.00001	-0.00000
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00019	0.00020	0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7R	**(A0 * B1 * C1 * Y)**	0.00000	0.00000	0.00001
	(A0 * B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C1 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C0 * !C1 * Y)	-0.00033	-0.00033	-0.00033
	(A0 * B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * B0 * !B1 * C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * C1 * Y)	-0.00033	-0.00033	-0.00032
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * Y)	-0.00033	-0.00033	-0.00032
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * !B1 * C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00023	-0.00023	-0.00022
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B1 * !C0 * !C1 * !Y)	-0.00020	-0.00018	-0.00015
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * !Y)	-0.00020	-0.00019	-0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7R	**(A1 * B1 * C1 * Y)**	-0.00012	-0.00011	-0.00009
	(A1 * B1 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * Y)	0.00029	0.00029	0.00030
	(A1 * B1 * C0 * !C1 * Y)	-0.00012	-0.00011	-0.00009
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	0.00029	0.00029	0.00029
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00016
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00023	0.00024	0.00025
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00012
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B1 * C1 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00029	0.00029	0.00030
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00029	0.00029	0.00030
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00016
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00024	0.00025	0.00025
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00010	0.00010	0.00011

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7R	**(A1 * B1 * C1 * Y)**	0.00012	0.00013	0.00013
	(A1 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(A1 * B1 * C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(A1 * B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00023	-0.00021
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00014	0.00015	0.00015
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * !Y) + (!A0 * A1 * B1 * !C0 * !C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B1 * C1 * Y)	0.00012	0.00013	0.00013
	(A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00012	0.00013	0.00013
	(A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00024	-0.00023	-0.00020
	(!A0 * !A1 * B1 * C1 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * !C0 * !C1 * !Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7R	**(A1 * B0 * C1 * Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C1 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00020	0.00021	0.00021
	(A0 * !A1 * B0 * C1 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * C1 * Y)	0.00029	0.00029	0.00029
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00029	0.00029	0.00029
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00013
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00022	0.00022	0.00023
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B0 * C1 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00000	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7R	**(A1 * B0 * C1 * Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00017	0.00018	0.00018
	(A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(A0 * !A1 * B0 * C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * C1 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B0 * C1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00017	0.00018	0.00019
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !A1 * B0 * C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7R	**(A1 * B1 * C1 * Y)**	-0.00012	-0.00011	-0.00010
	(A1 * B1 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * Y)	0.00030	0.00030	0.00031
	(A1 * B0 * !B1 * C1 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * Y)	0.00030	0.00030	0.00031
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00021	-0.00020	-0.00019
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00003	0.00004
	(A1 * !B0 * !B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00010	0.00010	0.00011
	(A0 * !A1 * B1 * C1 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * Y)	0.00030	0.00030	0.00030
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00021	-0.00020	-0.00018
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00002	0.00003	0.00004
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00009	0.00010	0.00011
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00009	0.00009	0.00010

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7R	**(A1 * B1 * C1 * Y)**	0.00011	0.00012	0.00013
	(A1 * B1 * C1 * Y)	0.00001	0.00002	0.00003
	(A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * B0 * !B1 * C1 * Y)	0.00012	0.00012	0.00013
	(A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * !B0 * !B1 * C1 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00022	0.00022	0.00023
	(A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B1 * C1 * Y)	0.00012	0.00012	0.00013
	(A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00012	0.00013	0.00013
	(A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A1 * !B0 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * !C1 * !Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C1 * !Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * !Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OA222X4H7R	**(A1 * B1 * C0 * Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * B0 * !B1 * C0 * Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00026	-0.00025	-0.00024
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * !Y)	0.00004	0.00005	0.00006
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00005	0.00006
	(A0 * !A1 * B1 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * Y)	0.00034	0.00034	0.00034
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00001	0.00002	0.00003
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00005	0.00006	0.00007
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00026	-0.00025	-0.00023
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00026	-0.00025	-0.00024
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

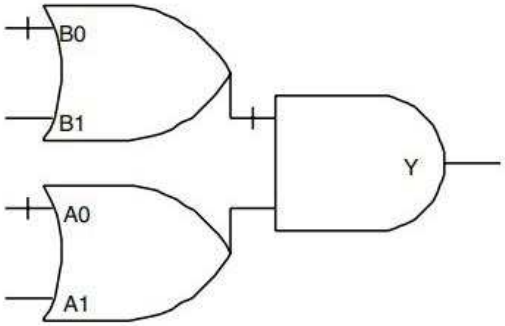
OA222X4H7R	**(A1 * B1 * C0 * Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * !B0 * !B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * !Y)	-0.00005	-0.00005	-0.00004

OA22X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X0P5H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X0P5H7R	0.00065	0.00071	0.00072	0.00076	0.04260

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X0P5H7R	0.00000	0.21534	0.33037

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X0P5H7R	A0->Y (RR)	0.05508	0.20338	0.56159
	A1->Y (RR)	0.05299	0.19931	0.55352
	B0->Y (RR)	0.04924	0.19386	0.54343
	B1->Y (RR)	0.04671	0.18935	0.53549

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X0P5H7R	A0->Y (FF)	0.06931	0.19530	0.49726
	A1->Y (FF)	0.06741	0.19640	0.50365
	B0->Y (FF)	0.05849	0.17911	0.47225
	B1->Y (FF)	0.05605	0.17949	0.47742

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X0P5H7R	A0	0.00039	0.00045	0.00060
	A0	0.00011	0.00011	0.00011
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00162	0.00167	0.00180
	A1	0.00038	0.00045	0.00061
	A1	0.00007	0.00007	0.00007
	A1	-0.00009	-0.00009	-0.00007
	A1	0.00147	0.00153	0.00167
	B0	0.00038	0.00047	0.00075
	B0	0.00011	0.00011	0.00011
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00131	0.00140	0.00166
	B1	0.00038	0.00049	0.00079
	B1	0.00007	0.00007	0.00008
	B1	-0.00002	-0.00002	-0.00001
	B1	0.00118	0.00127	0.00155

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X0P5H7R	A0	0.00167	0.00173	0.00191
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00009	0.00009	0.00010
	A0	0.00045	0.00052	0.00070
	A1	0.00156	0.00164	0.00193
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00009	0.00009	0.00009
	A1	0.00050	0.00059	0.00088
	B0	0.00133	0.00142	0.00164
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00002	0.00002	0.00003
	B0	0.00037	0.00046	0.00070
	B1	0.00122	0.00132	0.00165
	B1	-0.00002	-0.00002	-0.00002
	B1	0.00001	0.00002	0.00003
	B1	0.00041	0.00051	0.00084

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7R	(A1 * B1 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * !B1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * !B1 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00024	0.00025	0.00025
	(!A1 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7R	(A1 * B1 * Y)	0.00008	0.00008	0.00009
	(A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * B0 * !B1 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * !B1 * !Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7R	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00024	0.00024	0.00024
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7R	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !B1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7R	(A1 * B1 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00027	0.00027	0.00028
	(A0 * !A1 * B1 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	0.00027	0.00027	0.00028
	(!A0 * !A1 * B1 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * !B1 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7R	(A1 * B1 * Y)	0.00008	0.00008	0.00008
	(A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7R	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for B1 falling (conditional):

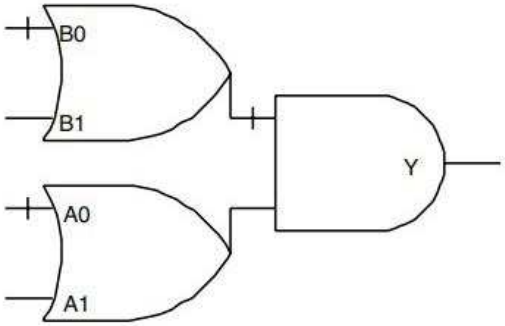
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P5H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

OA22X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X0P7H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X0P7H7R	0.00065	0.00071	0.00073	0.00075	0.04825

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X0P7H7R	0.00000	0.22833	0.33732

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X0P7H7R	A0->Y (RR)	0.05424	0.20291	0.56153
	A1->Y (RR)	0.05216	0.19886	0.55369
	B0->Y (RR)	0.04848	0.19351	0.54361
	B1->Y (RR)	0.04585	0.18888	0.53556

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X0P7H7R	A0->Y (FF)	0.06854	0.19511	0.49736
	A1->Y (FF)	0.06664	0.19624	0.50389
	B0->Y (FF)	0.05783	0.17900	0.47249
	B1->Y (FF)	0.05518	0.17927	0.47768

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X0P7H7R	A0	0.00042	0.00047	0.00063
	A0	0.00010	0.00011	0.00011
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00164	0.00169	0.00181
	A1	0.00040	0.00047	0.00065
	A1	0.00006	0.00006	0.00007
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00149	0.00155	0.00168
	B0	0.00040	0.00050	0.00078
	B0	0.00010	0.00011	0.00011
	B0	-0.00002	-0.00002	0.00000
	B0	0.00132	0.00143	0.00169
	B1	0.00041	0.00051	0.00082
	B1	0.00006	0.00006	0.00007
	B1	-0.00002	-0.00002	0.00000
	B1	0.00119	0.00129	0.00157

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X0P7H7R	A0	0.00169	0.00175	0.00194
	A0	-0.00007	-0.00006	-0.00006
	A0	0.00009	0.00009	0.00009
	A0	0.00048	0.00054	0.00073
	A1	0.00158	0.00166	0.00197
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00009	0.00009	0.00009
	A1	0.00052	0.00061	0.00092
	B0	0.00135	0.00144	0.00166
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00001	0.00002	0.00002
	B0	0.00039	0.00047	0.00073
	B1	0.00124	0.00134	0.00168
	B1	-0.00002	-0.00002	-0.00002
	B1	0.00000	0.00002	0.00003
	B1	0.00044	0.00054	0.00088

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7R	(A1 * B1 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * !B1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * !B1 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7R	(A1 * B1 * Y)	0.00008	0.00008	0.00009
	(A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * B0 * !B1 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * !B1 * !Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7R	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00024	0.00024	0.00024
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7R	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * !B1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7R	(A1 * B1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B1 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B1 * !Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7R	(A1 * B1 * Y)	0.00008	0.00008	0.00008
	(A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00028	-0.00027	-0.00027
	(A0 * !A1 * B1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7R	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for B1 falling (conditional):

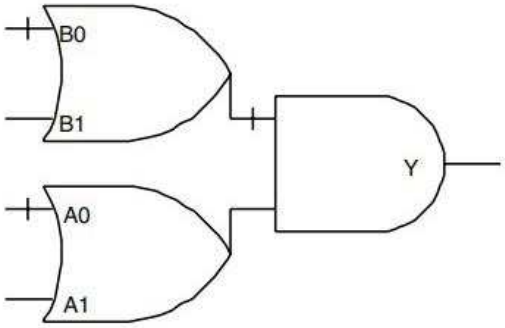
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X0P7H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

OA22X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X1H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X1H7R	0.00065	0.00071	0.00074	0.00075	0.05754

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X1H7R	0.00000	0.24676	0.34827

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X1H7R	A0->Y (RR)	0.05341	0.20298	0.56255
	A1->Y (RR)	0.05133	0.19900	0.55538
	B0->Y (RR)	0.04768	0.19376	0.54557
	B1->Y (RR)	0.04503	0.18921	0.53765

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X1H7R	A0->Y (FF)	0.06813	0.19760	0.50578
	A1->Y (FF)	0.06630	0.19880	0.51264
	B0->Y (FF)	0.05756	0.18166	0.48094
	B1->Y (FF)	0.05490	0.18200	0.48639

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X1H7R	A0	0.00045	0.00051	0.00071
	A0	0.00010	0.00010	0.00010
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00167	0.00172	0.00185
	A1	0.00044	0.00051	0.00068
	A1	0.00006	0.00006	0.00006
	A1	-0.00008	-0.00008	-0.00006
	A1	0.00151	0.00158	0.00172
	B0	0.00043	0.00053	0.00083
	B0	0.00010	0.00010	0.00010
	B0	-0.00001	-0.00001	-0.00000
	B0	0.00137	0.00146	0.00174
	B1	0.00044	0.00055	0.00087
	B1	0.00006	0.00006	0.00006
	B1	-0.00001	-0.00001	-0.00000
	B1	0.00122	0.00132	0.00162

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X1H7R	A0	0.00172	0.00179	0.00199
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00009	0.00009	0.00009
	A0	0.00052	0.00058	0.00079
	A1	0.00161	0.00170	0.00203
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00009	0.00009	0.00010
	A1	0.00056	0.00065	0.00098
	B0	0.00139	0.00147	0.00171
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00001	0.00001	0.00002
	B0	0.00042	0.00051	0.00077
	B1	0.00127	0.00137	0.00174
	B1	-0.00002	-0.00002	-0.00001
	B1	0.00000	0.00001	0.00003
	B1	0.00048	0.00059	0.00094

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7R	(A1 * B1 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * !B1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * !B1 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7R	(A1 * B1 * Y)	0.00008	0.00008	0.00009
	(A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * B0 * !B1 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * !B1 * !Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00011
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7R	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00024	0.00024	0.00024
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7R	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !B0 * !B1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7R	(A1 * B1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B1 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7R	(A1 * B1 * Y)	0.00008	0.00008	0.00008
	(A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * !Y)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7R	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B0 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for B1 falling (conditional):

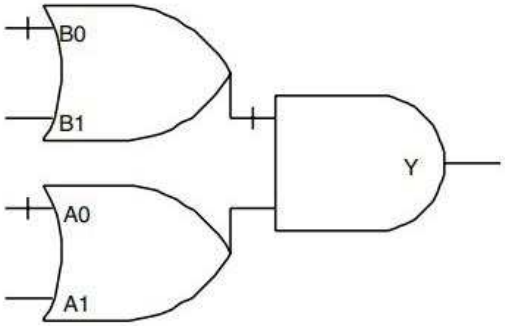
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * B0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00005

OA22X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X1P4H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X1P4H7R	0.00065	0.00071	0.00075	0.00075	0.06575

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X1P4H7R	0.00000	0.26445	0.35783

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X1P4H7R	A0->Y (RR)	0.05316	0.20362	0.56515
	A1->Y (RR)	0.05108	0.19967	0.55805
	B0->Y (RR)	0.04751	0.19459	0.54836
	B1->Y (RR)	0.04475	0.18996	0.54004

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X1P4H7R	A0->Y (FF)	0.06802	0.19850	0.50775
	A1->Y (FF)	0.06613	0.19976	0.51480
	B0->Y (FF)	0.05759	0.18272	0.48324
	B1->Y (FF)	0.05479	0.18299	0.48856

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X1P4H7R	A0	0.00048	0.00055	0.00072
	A0	0.00009	0.00010	0.00010
	A0	-0.00008	-0.00008	-0.00006
	A0	0.00168	0.00175	0.00189
	A1	0.00048	0.00055	0.00072
	A1	0.00005	0.00005	0.00005
	A1	-0.00008	-0.00008	-0.00006
	A1	0.00154	0.00161	0.00176
	B0	0.00047	0.00057	0.00088
	B0	0.00009	0.00010	0.00010
	B0	-0.00001	-0.00001	0.00002
	B0	0.00137	0.00149	0.00179
	B1	0.00047	0.00059	0.00092
	B1	0.00005	0.00005	0.00005
	B1	-0.00001	-0.00001	0.00000
	B1	0.00125	0.00135	0.00166

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X1P4H7R	A0	0.00176	0.00182	0.00204
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00008	0.00008	0.00008
	A0	0.00056	0.00063	0.00085
	A1	0.00164	0.00173	0.00209
	A1	-0.00001	-0.00001	0.00001
	A1	0.00006	0.00008	0.00008
	A1	0.00060	0.00070	0.00105
	B0	0.00142	0.00151	0.00176
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00001	0.00001	0.00001
	B0	0.00047	0.00055	0.00081
	B1	0.00131	0.00141	0.00180
	B1	-0.00001	-0.00001	-0.00000
	B1	0.00000	0.00001	0.00002
	B1	0.00052	0.00063	0.00101

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7R	(A1 * B1 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * !B1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * !B1 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7R	(A1 * B1 * Y)	0.00008	0.00008	0.00008
	(A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * B0 * !B1 * Y)	0.00008	0.00008	0.00009
	(A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * !B1 * !Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7R	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00024	0.00024	0.00024
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00017	0.00017	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7R	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00002	0.00002	0.00003
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !B0 * !B1 * !Y)	0.00012	0.00013	0.00013
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00017	-0.00016	-0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7R	(A1 * B1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00028	0.00029	0.00029
	(A0 * !A1 * B1 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * B1 * !Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B1 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * !Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7R	(A1 * B1 * Y)	0.00008	0.00008	0.00008
	(A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * B1 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !B1 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7R	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B0 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

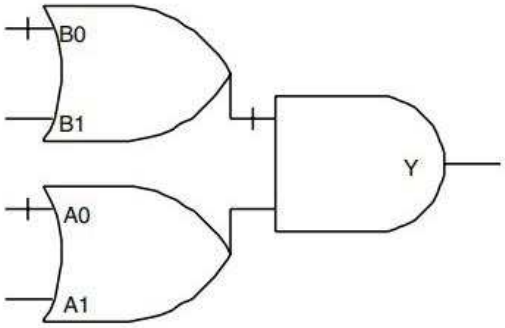
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X1P4H7R	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * !Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00004

OA22X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X2H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X2H7R	0.00065	0.00071	0.00078	0.00074	0.07741

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X2H7R	0.00000	0.29163	0.37130

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X2H7R	A0->Y (RR)	0.05357	0.20532	0.56958
	A1->Y (RR)	0.05154	0.20142	0.56163
	B0->Y (RR)	0.04823	0.19671	0.55304
	B1->Y (RR)	0.04504	0.19178	0.54445

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X2H7R	A0->Y (FF)	0.06855	0.19924	0.50713
	A1->Y (FF)	0.06673	0.20059	0.51458
	B0->Y (FF)	0.05859	0.18391	0.48298
	B1->Y (FF)	0.05526	0.18384	0.48828

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X2H7R	A0	0.00054	0.00061	0.00078
	A0	0.00009	0.00009	0.00009
	A0	-0.00007	-0.00007	-0.00005
	A0	0.00175	0.00181	0.00197
	A1	0.00054	0.00061	0.00086
	A1	0.00004	0.00005	0.00005
	A1	-0.00008	-0.00007	-0.00005
	A1	0.00159	0.00167	0.00184
	B0	0.00053	0.00063	0.00097
	B0	0.00009	0.00009	0.00009
	B0	-0.00000	-0.00000	0.00004
	B0	0.00144	0.00156	0.00189
	B1	0.00054	0.00065	0.00101
	B1	0.00004	0.00005	0.00005
	B1	-0.00000	-0.00000	0.00001
	B1	0.00130	0.00141	0.00174

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X2H7R	**A0**	0.00182	0.00189	0.00213
	A0	-0.00005	-0.00005	-0.00003
	A0	0.00007	0.00008	0.00008
	A0	0.00062	0.00069	0.00094
	A1	0.00170	0.00180	0.00219
	A1	-0.00000	-0.00000	0.00000
	A1	0.00008	0.00008	0.00008
	A1	0.00067	0.00076	0.00116
	B0	0.00149	0.00158	0.00185
	B0	-0.00005	-0.00005	-0.00003
	B0	0.00000	0.00000	0.00001
	B0	0.00053	0.00061	0.00089
	B1	0.00135	0.00147	0.00189
	B1	-0.00000	-0.00000	0.00001
	B1	0.00000	0.00000	0.00001
	B1	0.00059	0.00070	0.00112

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7R	(A1 * B1 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * !B1 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * !B1 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7R	(A1 * B1 * Y)	0.00008	0.00008	0.00008
	(A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * B0 * !B1 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * Y)	-0.00025	-0.00024	-0.00024
	(A1 * !B0 * !B1 * !Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00025	-0.00024	-0.00024
	(!A1 * !B0 * !B1 * !Y)	0.00009	0.00010	0.00010
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7R	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00024	0.00024	0.00024
	(A0 * B0 * !B1 * Y)	-0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	0.00018	0.00019	0.00019
	(!A0 * !B0 * !B1 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00016	0.00017	0.00017

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7R	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !B0 * !B1 * !Y)	0.00013	0.00013	0.00013
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00017	-0.00016	-0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7R	(A1 * B1 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A1 * B1 * Y)	0.00030	0.00030	0.00030
	(A0 * !A1 * B1 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * B1 * !Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00002	0.00003
	(!A0 * !A1 * !B1 * !Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7R	(A1 * B1 * Y)	0.00008	0.00008	0.00008
	(A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * B1 * Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00030	-0.00030	-0.00029
	(!A0 * !A1 * B1 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * !B1 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7R	(A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

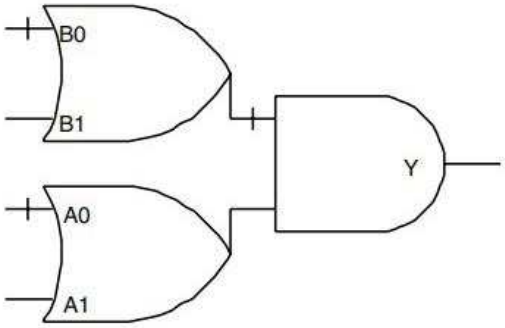
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X2H7R	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * !Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00004

OA22X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X3H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X3H7R	0.00074	0.00080	0.00083	0.00085	0.12038

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X3H7R	0.00000	0.42742	0.51069

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X3H7R	A0->Y (RR)	0.05129	0.20447	0.57196
	A1->Y (RR)	0.04905	0.20042	0.56394
	B0->Y (RR)	0.04620	0.19662	0.55705
	B1->Y (RR)	0.04343	0.19203	0.54838

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X3H7R	A0->Y (FF)	0.06508	0.19828	0.50888
	A1->Y (FF)	0.06300	0.19900	0.51475
	B0->Y (FF)	0.05592	0.18451	0.48743
	B1->Y (FF)	0.05320	0.18448	0.49201

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X3H7R	A0	0.00080	0.00091	0.00119
	A0	0.00012	0.00012	0.00012
	A0	-0.00009	-0.00009	-0.00005
	A0	0.00220	0.00232	0.00259
	A1	0.00080	0.00092	0.00122
	A1	0.00006	0.00006	0.00006
	A1	-0.00009	-0.00009	-0.00008
	A1	0.00203	0.00215	0.00243
	B0	0.00080	0.00094	0.00146
	B0	0.00012	0.00012	0.00012
	B0	-0.00000	0.00000	0.00008
	B0	0.00188	0.00202	0.00252
	B1	0.00081	0.00096	0.00151
	B1	0.00006	0.00006	0.00006
	B1	-0.00000	0.00000	0.00002
	B1	0.00170	0.00184	0.00237

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X3H7R	**A0**	0.00240	0.00250	0.00290
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00010	0.00010	0.00010
	A0	0.00099	0.00109	0.00149
	A1	0.00222	0.00238	0.00300
	A1	-0.00000	-0.00000	0.00002
	A1	0.00010	0.00010	0.00010
	A1	0.00103	0.00117	0.00179
	B0	0.00202	0.00213	0.00256
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00000	0.00000	0.00001
	B0	0.00091	0.00102	0.00145
	B1	0.00185	0.00200	0.00267
	B1	-0.00000	-0.00000	0.00000
	B1	-0.00001	0.00000	0.00000
	B1	0.00095	0.00110	0.00176

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7R	(A1 * B1 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * Y)	0.00027	0.00027	0.00028
	(A1 * B0 * !B1 * Y)	-0.00011	-0.00010	-0.00008
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * Y)	0.00027	0.00027	0.00028
	(A1 * !B0 * !B1 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !B1 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !Y)	0.00024	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7R	(A1 * B1 * Y)	0.00011	0.00011	0.00011
	(A1 * B1 * Y)	0.00001	0.00001	0.00002
	(A1 * B1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00027	-0.00027	-0.00026
	(A1 * B0 * !B1 * Y)	0.00011	0.00011	0.00012
	(A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * Y)	-0.00027	-0.00027	-0.00026
	(A1 * !B0 * !B1 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B0 * !B1 * !Y)	0.00013	0.00013	0.00014
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00024	-0.00023	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7R	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * Y)	0.00027	0.00028	0.00028
	(A0 * B0 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * Y)	0.00027	0.00028	0.00028
	(A0 * !B0 * !B1 * !Y)	-0.00014	-0.00013	-0.00011
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * !B1 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00019	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7R	(A0 * B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00002	0.00003	0.00003
	(A0 * B1 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * B1 * Y)	-0.00028	-0.00027	-0.00027
	(A0 * B0 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00028	-0.00027	-0.00027
	(A0 * !B0 * !B1 * !Y)	0.00013	0.00013	0.00014
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * !Y)	-0.00019	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7R	(A1 * B1 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * Y)	0.00030	0.00030	0.00031
	(A0 * !A1 * B1 * Y)	-0.00011	-0.00010	-0.00008
	(A0 * !A1 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * Y)	0.00030	0.00030	0.00031
	(!A0 * !A1 * B1 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B1 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7R	(A1 * B1 * Y)	0.00011	0.00011	0.00011
	(A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * Y)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * B1 * Y)	0.00010	0.00011	0.00011
	(A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * B1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00030	0.00030	0.00030
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * B0 * !Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B0 * !Y)	0.00004	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

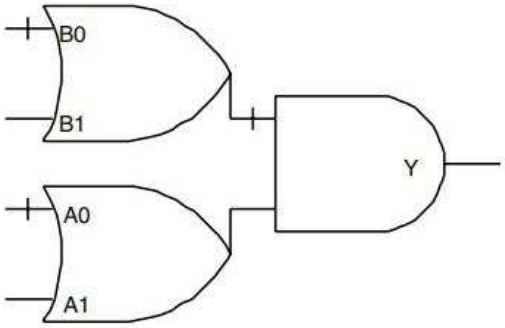
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X3H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00002	0.00003	0.00004
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * B0 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !Y)	0.00024	0.00025	0.00025
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00004

OA22X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X4H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X4H7R	0.00079	0.00086	0.00092	0.00092	0.15443

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X4H7R	0.00000	0.52509	0.63147

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X4H7R	A0->Y (RR)	0.04859	0.20142	0.56717
	A1->Y (RR)	0.04635	0.19745	0.56043
	B0->Y (RR)	0.04402	0.19425	0.55302
	B1->Y (RR)	0.04123	0.18966	0.54467

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X4H7R	A0->Y (FF)	0.06329	0.19704	0.50759
	A1->Y (FF)	0.06103	0.19754	0.51297
	B0->Y (FF)	0.05473	0.18399	0.48712
	B1->Y (FF)	0.05171	0.18366	0.49115

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X4H7R	A0	0.00095	0.00107	0.00144
	A0	0.00012	0.00013	0.00013
	A0	-0.00011	-0.00010	-0.00003
	A0	0.00251	0.00262	0.00296
	A1	0.00095	0.00108	0.00148
	A1	0.00006	0.00006	0.00006
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00230	0.00242	0.00278
	B0	0.00094	0.00111	0.00175
	B0	0.00012	0.00012	0.00012
	B0	0.00000	0.00001	0.00005
	B0	0.00212	0.00228	0.00290
	B1	0.00096	0.00112	0.00182
	B1	0.00005	0.00006	0.00006
	B1	0.00000	0.00001	0.00002
	B1	0.00191	0.00208	0.00273

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X4H7R	**A0**	0.00267	0.00279	0.00330
	A0	-0.00006	-0.00006	-0.00004
	A0	0.00011	0.00011	0.00011
	A0	0.00113	0.00125	0.00176
	A1	0.00246	0.00265	0.00344
	A1	0.00001	0.00001	0.00004
	A1	0.00011	0.00011	0.00011
	A1	0.00118	0.00133	0.00213
	B0	0.00227	0.00239	0.00295
	B0	-0.00006	-0.00006	-0.00005
	B0	-0.00001	-0.00000	0.00001
	B0	0.00105	0.00118	0.00174
	B1	0.00207	0.00225	0.00308
	B1	0.00001	0.00001	0.00003
	B1	-0.00001	-0.00000	0.00001
	B1	0.00110	0.00127	0.00211

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7R	(A1 * B1 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * B1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * Y)	0.00028	0.00029	0.00030
	(A1 * B0 * !B1 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * Y)	0.00028	0.00029	0.00029
	(A1 * !B0 * !B1 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * !B1 * !Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7R	(A1 * B1 * Y)	0.00012	0.00013	0.00013
	(A1 * B1 * Y)	0.00001	0.00001	0.00002
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !B1 * Y)	0.00012	0.00013	0.00013
	(A1 * B0 * !B1 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !B1 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * !B1 * !Y)	0.00014	0.00015	0.00015
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00026	-0.00024	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7R	(A0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * Y)	0.00029	0.00030	0.00030
	(A0 * B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * Y)	0.00029	0.00030	0.00030
	(A0 * !B0 * !B1 * !Y)	-0.00015	-0.00014	-0.00012
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7R	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * Y)	-0.00030	-0.00029	-0.00029
	(A0 * B0 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * Y)	-0.00030	-0.00029	-0.00029
	(A0 * !B0 * !B1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * !B1 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00020	-0.00019	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7R	(A1 * B1 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * Y)	0.00033	0.00033	0.00034
	(A0 * !A1 * B1 * Y)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * Y)	0.00033	0.00033	0.00034
	(!A0 * !A1 * B1 * !Y)	-0.00026	-0.00025	-0.00024
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B1 * !Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * !Y)	-0.00028	-0.00027	-0.00027
	(!A0 * !A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00003	0.00003
	(!A0 * !A1 * !B1 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7R	(A1 * B1 * Y)	0.00012	0.00013	0.00013
	(A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * Y)	-0.00033	-0.00033	-0.00032
	(A0 * !A1 * B1 * Y)	0.00013	0.00013	0.00013
	(A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * Y)	-0.00033	-0.00033	-0.00033
	(!A0 * !A1 * B1 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !Y)	0.00027	0.00028	0.00028
	(!A0 * !A1 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00003	-0.00002	-0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00032	0.00032	0.00033
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * Y)	0.00032	0.00032	0.00033
	(!A0 * !A1 * B0 * !Y)	-0.00025	-0.00024	-0.00022
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !B0 * !Y)	0.00005	0.00005	0.00006

Passive power(pJ) for B1 falling (conditional):

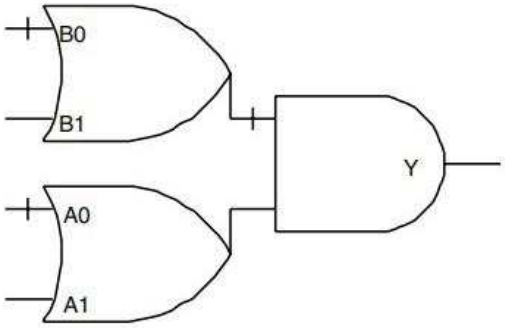
Cell Name	When	Power(pJ)		
		min	avg	max
OA22X4H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * Y)	-0.00033	-0.00032	-0.00032
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00033	-0.00032	-0.00032
	(!A0 * !A1 * B0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !Y)	-0.00005	-0.00005	-0.00004

OA22X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OA22 cell provides the logical AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	0
x	1	0	0	0
x	1	x	1	1
x	1	1	x	1
1	x	0	0	0
1	x	x	1	1
1	x	1	x	1

Footprint

Cell Name	Area
OA22X6H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OA22X6H7R	0.00089	0.00097	0.00104	0.00100	0.23167

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OA22X6H7R	0.00000	0.72995	0.90450

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X6H7R	A0->Y (RR)	0.05175	0.20720	0.57767
	A1->Y (RR)	0.04934	0.20306	0.57032
	B0->Y (RR)	0.04762	0.20117	0.56600
	B1->Y (RR)	0.04456	0.19651	0.55815

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA22X6H7R	A0->Y (FF)	0.06722	0.20419	0.51993
	A1->Y (FF)	0.06474	0.20446	0.52522
	B0->Y (FF)	0.05935	0.19248	0.50116
	B1->Y (FF)	0.05609	0.19209	0.50582

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X6H7R	A0	0.00153	0.00170	0.00229
	A0	0.00012	0.00013	0.00013
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00326	0.00341	0.00397
	A1	0.00154	0.00171	0.00233
	A1	0.00004	0.00005	0.00005
	A1	-0.00011	-0.00011	-0.00009
	A1	0.00302	0.00317	0.00375
	B0	0.00154	0.00175	0.00273
	B0	0.00013	0.00013	0.00013
	B0	0.00000	0.00003	0.00003
	B0	0.00284	0.00305	0.00400
	B1	0.00156	0.00177	0.00281
	B1	0.00004	0.00005	0.00005
	B1	0.00002	0.00003	0.00007
	B1	0.00259	0.00281	0.00379

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA22X6H7R	**A0**	0.00344	0.00362	0.00444
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00011	0.00011	0.00011
	A0	0.00177	0.00192	0.00274
	A1	0.00325	0.00346	0.00469
	A1	0.00003	0.00003	0.00006
	A1	0.00011	0.00011	0.00011
	A1	0.00180	0.00201	0.00325
	B0	0.00303	0.00320	0.00406
	B0	-0.00005	-0.00005	-0.00004
	B0	-0.00003	-0.00002	0.00000
	B0	0.00168	0.00186	0.00272
	B1	0.00280	0.00302	0.00430
	B1	0.00003	0.00004	0.00004
	B1	-0.00003	-0.00002	0.00002
	B1	0.00174	0.00197	0.00325

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7R	(A1 * B1 * Y)	-0.00015	-0.00014	-0.00012
	(A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * Y)	0.00030	0.00031	0.00031
	(A1 * B0 * !B1 * Y)	-0.00015	-0.00014	-0.00012
	(A1 * B0 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * Y)	0.00030	0.00031	0.00032
	(A1 * !B0 * !B1 * !Y)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !B1 * !Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7R	(A1 * B1 * Y)	0.00015	0.00015	0.00015
	(A1 * B1 * Y)	0.00002	0.00002	0.00002
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * !B1 * Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !B1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !B1 * !Y)	0.00014	0.00015	0.00015
	(A1 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * !B1 * !Y)	0.00017	0.00018	0.00019
	(!A1 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !Y)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7R	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * Y)	0.00032	0.00032	0.00032
	(A0 * B0 * !B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * Y)	0.00032	0.00032	0.00032
	(A0 * !B0 * !B1 * !Y)	-0.00018	-0.00017	-0.00015
	(A0 * !B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * !B1 * !Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7R	(A0 * B1 * Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * Y)	0.00003	0.00004	0.00005
	(A0 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * Y)	-0.00032	-0.00032	-0.00032
	(A0 * !B0 * !B1 * !Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * !B1 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * !B1 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7R	(A1 * B1 * Y)	-0.00015	-0.00013	-0.00012
	(A1 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * Y)	0.00000	0.00001	0.00001
	(A1 * B1 * Y)	0.00036	0.00037	0.00037
	(A0 * !A1 * B1 * Y)	-0.00015	-0.00013	-0.00011
	(A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * Y)	0.00036	0.00036	0.00037
	(!A0 * !A1 * B1 * !Y)	-0.00029	-0.00028	-0.00027
	(!A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * !B1 * !Y)	-0.00031	-0.00031	-0.00031
	(!A0 * !A1 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B1 * !Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7R	(A1 * B1 * Y)	0.00015	0.00015	0.00015
	(A1 * B1 * Y)	0.00001	0.00002	0.00002
	(A1 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * Y)	-0.00036	-0.00036	-0.00036
	(A0 * !A1 * B1 * Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * Y)	-0.00036	-0.00036	-0.00036
	(!A0 * !A1 * B1 * !Y)	0.00029	0.00030	0.00030
	(!A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !Y)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !Y)	0.00031	0.00032	0.00032
	(!A0 * !A1 * !B1 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * !Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00035	0.00035	0.00035
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * Y)	0.00035	0.00035	0.00035
	(!A0 * !A1 * B0 * !Y)	-0.00027	-0.00026	-0.00024
	(!A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !B0 * !Y)	-0.00030	-0.00029	-0.00029
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * !Y)	0.00003	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA22X6H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00003	0.00003	0.00004
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * Y)	-0.00035	-0.00035	-0.00035
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00035	-0.00035	-0.00035
	(!A0 * !A1 * B0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !Y)	0.00029	0.00029	0.00030
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * !Y)	-0.00004	-0.00004	-0.00003

OA31X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	**A1**	**A2**	**B0**	**Y**
0	**0**	**0**	**x**	**0**
0	**x**	**1**	**0**	**0**
0	**x**	**1**	**1**	**1**
x	**1**	**x**	**0**	**0**
x	**1**	**x**	**1**	**1**
1	**x**	**x**	**0**	**0**
1	**x**	**x**	**1**	**1**

Footprint

Cell Name	Area
OA31X0P5H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X0P5H7R	0.00079	0.00073	0.00075	0.00074	0.04260

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X0P5H7R	0.00000	0.19434	0.28697

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X0P5H7R	A0->Y (RR)	0.05626	0.20345	0.55973
	A1->Y (RR)	0.05288	0.19857	0.55176
	A2->Y (RR)	0.04987	0.19363	0.54184
	B0->Y (RR)	0.05062	0.19748	0.55391

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X0P5H7R	A0->Y (FF)	0.09656	0.21961	0.51567
	A1->Y (FF)	0.09165	0.22247	0.53519
	A2->Y (FF)	0.08592	0.21799	0.53286
	B0->Y (FF)	0.03887	0.15874	0.44884

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X0P5H7R	A0	0.00033	0.00039	0.00050
	A0	0.00011	0.00011	0.00011
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00157	0.00163	0.00174
	A1	0.00035	0.00041	0.00056
	A1	0.00007	0.00007	0.00007
	A1	-0.00007	-0.00007	-0.00006
	A1	0.00142	0.00149	0.00161
	A2	0.00035	0.00042	0.00056
	A2	0.00002	0.00002	0.00003
	A2	-0.00007	-0.00007	-0.00006
	A2	0.00131	0.00138	0.00152
	B0	0.00034	0.00046	0.00084
	B0	0.00010	0.00011	0.00011
	B0	-0.00000	0.00000	0.00001
	B0	0.00131	0.00141	0.00170

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X0P5H7R	A0	0.00168	0.00174	0.00186
	A0	-0.00011	-0.00011	-0.00010
	A0	0.00007	0.00007	0.00007
	A0	0.00044	0.00049	0.00062
	A1	0.00154	0.00159	0.00176
	A1	-0.00007	-0.00007	-0.00005
	A1	0.00007	0.00007	0.00007
	A1	0.00047	0.00052	0.00069
	A2	0.00140	0.00148	0.00175
	A2	-0.00002	-0.00002	-0.00001
	A2	0.00007	0.00007	0.00007
	A2	0.00047	0.00054	0.00082
	B0	0.00146	0.00157	0.00194
	B0	-0.00003	-0.00003	-0.00002
	B0	-0.00000	0.00000	0.00011
	B0	0.00045	0.00057	0.00096

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7R	(A1 * A2 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * !Y)	-0.00017	-0.00017	-0.00016
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !A2 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00027	0.00028	0.00028
	(!A1 * A2 * B0 * Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * Y)	0.00027	0.00028	0.00028
	(!A1 * A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * !A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B0 * !Y)	0.00016	0.00017	0.00017

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7R	(A1 * A2 * B0 * Y)	0.00008	0.00008	0.00008
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00028	-0.00027	-0.00027
	(A1 * !B0 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(A1 * !A2 * B0 * Y)	0.00008	0.00009	0.00009
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00028	-0.00027	-0.00027
	(!A1 * A2 * B0 * Y)	0.00007	0.00008	0.00008
	(!A1 * A2 * B0 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00028	-0.00027	-0.00027
	(!A1 * A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7R	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00022	0.00022	0.00023
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !Y)	-0.00004	-0.00005	-0.00004
	(A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * !B0 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A2 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00022	0.00022	0.00022
	(A0 * !A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00012
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00022	0.00022	0.00023
	(!A0 * A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00015	0.00016	0.00016

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7R	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00004	0.00004	0.00004
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00004	0.00005	0.00004
	(A0 * A2 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A2 * B0 * Y)	0.00009	0.00009	0.00010
	(!A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00013

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00011
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00015	0.00016	0.00016

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * !B0 * !Y)	0.00013	0.00013	0.00014
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * !Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7R	(!A0 * !A1 * !A2 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P5H7R	(!A0 * !A1 * !A2 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00009

OA31X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X0P7H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X0P7H7R	0.00078	0.00071	0.00075	0.00074	0.04844

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X0P7H7R	0.00000	0.20600	0.29392

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X0P7H7R	A0->Y (RR)	0.05526	0.20337	0.56218
	A1->Y (RR)	0.05201	0.19859	0.55276
	A2->Y (RR)	0.04897	0.19368	0.54383
	B0->Y (RR)	0.04971	0.19751	0.55593

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X0P7H7R	A0->Y (FF)	0.09571	0.21992	0.51711
	A1->Y (FF)	0.09108	0.22307	0.53703
	A2->Y (FF)	0.08535	0.21862	0.53524
	B0->Y (FF)	0.03790	0.15852	0.45008

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X0P7H7R	A0	0.00034	0.00040	0.00054
	A0	0.00010	0.00010	0.00010
	A0	-0.00007	-0.00006	-0.00006
	A0	0.00158	0.00164	0.00176
	A1	0.00036	0.00042	0.00054
	A1	0.00006	0.00006	0.00006
	A1	-0.00007	-0.00006	-0.00006
	A1	0.00144	0.00150	0.00162
	A2	0.00037	0.00043	0.00058
	A2	0.00002	0.00002	0.00002
	A2	-0.00007	-0.00006	-0.00006
	A2	0.00133	0.00139	0.00154
	B0	0.00036	0.00047	0.00082
	B0	0.00010	0.00010	0.00010
	B0	0.00000	0.00000	0.00003
	B0	0.00131	0.00142	0.00172

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X0P7H7R	A0	0.00170	0.00175	0.00189
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00006	0.00006	0.00007
	A0	0.00045	0.00051	0.00065
	A1	0.00156	0.00161	0.00179
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00006	0.00006	0.00007
	A1	0.00049	0.00054	0.00072
	A2	0.00142	0.00150	0.00179
	A2	-0.00002	-0.00002	-0.00002
	A2	0.00006	0.00006	0.00007
	A2	0.00049	0.00056	0.00085
	B0	0.00147	0.00159	0.00197
	B0	-0.00002	-0.00002	-0.00001
	B0	-0.00000	-0.00000	0.00000
	B0	0.00047	0.00060	0.00098

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7R	(A1 * A2 * B0 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00028	0.00028	0.00028
	(A1 * !B0 * !Y)	-0.00017	-0.00017	-0.00016
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00019	0.00019	0.00019
	(A1 * !A2 * B0 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00028	0.00028	0.00028
	(!A1 * A2 * B0 * Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * Y)	0.00028	0.00028	0.00028
	(!A1 * A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B0 * !Y)	0.00016	0.00017	0.00017

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7R	(A1 * A2 * B0 * Y)	0.00008	0.00008	0.00008
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !Y)	0.00017	0.00017	0.00018
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(A1 * !A2 * B0 * Y)	0.00008	0.00008	0.00008
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * A2 * B0 * Y)	0.00008	0.00008	0.00008
	(!A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00020
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7R	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * Y)	0.00023	0.00023	0.00023
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A2 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00022	0.00022	0.00023
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00022	0.00023	0.00024
	(!A0 * A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7R	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00004	0.00004	0.00004
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * !A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A2 * B0 * Y)	0.00009	0.00009	0.00010
	(!A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A2 * !B0 * !Y)	0.00013	0.00013	0.00014
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00011
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * !B0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * !B0 * !Y)	0.00013	0.00014	0.00014
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7R	(!A0 * !A1 * !A2 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * !Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X0P7H7R	(!A0 * !A1 * !A2 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00009

OA31X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X1H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X1H7R	0.00078	0.00071	0.00074	0.00074	0.05758

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X1H7R	0.00000	0.22277	0.30487

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X1H7R	A0->Y (RR)	0.05428	0.20292	0.56173
	A1->Y (RR)	0.05111	0.19825	0.55382
	A2->Y (RR)	0.04807	0.19336	0.54473
	B0->Y (RR)	0.04880	0.19718	0.55625

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X1H7R	A0->Y (FF)	0.09543	0.22237	0.52485
	A1->Y (FF)	0.09095	0.22564	0.54472
	A2->Y (FF)	0.08519	0.22125	0.54314
	B0->Y (FF)	0.03714	0.16002	0.45605

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X1H7R	A0	0.00038	0.00044	0.00057
	A0	0.00010	0.00010	0.00010
	A0	-0.00006	-0.00006	-0.00006
	A0	0.00161	0.00167	0.00180
	A1	0.00040	0.00046	0.00061
	A1	0.00006	0.00006	0.00006
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00146	0.00153	0.00166
	A2	0.00040	0.00047	0.00064
	A2	0.00001	0.00002	0.00002
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00135	0.00142	0.00157
	B0	0.00039	0.00050	0.00087
	B0	0.00010	0.00010	0.00010
	B0	0.00000	0.00001	0.00002
	B0	0.00134	0.00144	0.00176

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X1H7R	**A0**	0.00171	0.00178	0.00194
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00006	0.00006	0.00006
	A0	0.00048	0.00054	0.00070
	A1	0.00159	0.00164	0.00184
	A1	-0.00006	-0.00006	-0.00004
	A1	0.00006	0.00006	0.00006
	A1	0.00053	0.00058	0.00078
	A2	0.00145	0.00153	0.00184
	A2	-0.00002	-0.00002	0.00001
	A2	0.00006	0.00006	0.00006
	A2	0.00053	0.00061	0.00092
	B0	0.00150	0.00162	0.00201
	B0	-0.00002	-0.00002	-0.00001
	B0	-0.00001	-0.00001	0.00000
	B0	0.00051	0.00064	0.00105

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7R	(A1 * A2 * B0 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * !Y)	-0.00017	-0.00017	-0.00016
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00019	0.00019	0.00020
	(A1 * !A2 * B0 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00028	0.00028	0.00029
	(!A1 * A2 * B0 * Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * Y)	0.00028	0.00028	0.00029
	(!A1 * A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B0 * !Y)	0.00017	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7R	(A1 * A2 * B0 * Y)	0.00008	0.00008	0.00008
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00029	-0.00028	-0.00028
	(A1 * !B0 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00020	-0.00019	-0.00019
	(A1 * !A2 * B0 * Y)	0.00008	0.00008	0.00009
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00029	-0.00028	-0.00028
	(!A1 * A2 * B0 * Y)	0.00008	0.00008	0.00008
	(!A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7R	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00022	0.00023	0.00023
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00022	0.00022	0.00022
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00022	0.00023	0.00024
	(!A0 * A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7R	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00004	0.00004	0.00004
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A2 * B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A2 * B0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00011
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * !B0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00015	0.00016	0.00016

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7R	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !B0 * !Y)	0.00013	0.00014	0.00014
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7R	(!A0 * !A1 * !A2 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !A2 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1H7R	(!A0 * !A1 * !A2 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00008

OA31X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X1P4H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X1P4H7R	0.00079	0.00071	0.00075	0.00074	0.06574

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X1P4H7R	0.00000	0.23866	0.31443

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X1P4H7R	A0->Y (RR)	0.05408	0.20356	0.56369
	A1->Y (RR)	0.05089	0.19889	0.55633
	A2->Y (RR)	0.04787	0.19398	0.54649
	B0->Y (RR)	0.04862	0.19787	0.55830

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X1P4H7R	A0->Y (FF)	0.09587	0.22384	0.52693
	A1->Y (FF)	0.09132	0.22715	0.54733
	A2->Y (FF)	0.08564	0.22278	0.54576
	B0->Y (FF)	0.03679	0.16037	0.45756

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X1P4H7R	A0	0.00042	0.00047	0.00061
	A0	0.00009	0.00009	0.00010
	A0	-0.00006	-0.00006	-0.00003
	A0	0.00163	0.00170	0.00185
	A1	0.00043	0.00049	0.00067
	A1	0.00004	0.00005	0.00005
	A1	-0.00006	-0.00006	-0.00004
	A1	0.00147	0.00155	0.00170
	A2	0.00044	0.00050	0.00067
	A2	0.00001	0.00001	0.00001
	A2	-0.00006	-0.00006	-0.00005
	A2	0.00138	0.00144	0.00161
	B0	0.00042	0.00054	0.00092
	B0	0.00009	0.00009	0.00009
	B0	0.00000	0.00001	0.00004
	B0	0.00136	0.00147	0.00180

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X1P4H7R	A0	0.00176	0.00182	0.00199
	A0	-0.00010	-0.00009	-0.00008
	A0	0.00006	0.00006	0.00006
	A0	0.00052	0.00058	0.00076
	A1	0.00162	0.00168	0.00190
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00006	0.00006	0.00006
	A1	0.00057	0.00063	0.00085
	A2	0.00148	0.00157	0.00191
	A2	-0.00001	-0.00001	0.00001
	A2	0.00006	0.00006	0.00006
	A2	0.00057	0.00065	0.00100
	B0	0.00153	0.00165	0.00207
	B0	-0.00001	-0.00001	-0.00000
	B0	-0.00001	-0.00001	0.00000
	B0	0.00055	0.00068	0.00110

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7R	(A1 * A2 * B0 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * !Y)	-0.00017	-0.00017	-0.00016
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(A1 * !A2 * B0 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * A2 * B0 * Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * !A2 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B0 * !Y)	0.00017	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7R	(A1 * A2 * B0 * Y)	0.00008	0.00008	0.00008
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A1 * !A2 * B0 * Y)	0.00008	0.00008	0.00009
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * B0 * Y)	0.00008	0.00008	0.00008
	(!A1 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7R	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00023	0.00023	0.00023
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * !B0 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A2 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00022	0.00022	0.00022
	(A0 * !A2 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * B0 * Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00022	0.00023	0.00024
	(!A0 * A2 * !B0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A2 * !B0 * !Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7R	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00004	0.00004	0.00004
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * A2 * !B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A2 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * B0 * Y)	0.00002	0.00003	0.00003
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00017	0.00018	0.00018
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00011
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * !B0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7R	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00018	-0.00018	-0.00017
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !B0 * !Y)	0.00013	0.00014	0.00014
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7R	(!A0 * !A1 * !A2 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X1P4H7R	(!A0 * !A1 * !A2 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00009

OA31X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X2H7R	0.00078	0.00071	0.00075	0.00074	0.08510

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X2H7R	0.00000	0.28049	0.36996

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X2H7R	A0->Y (RR)	0.06021	0.21380	0.58221
	A1->Y (RR)	0.05678	0.20909	0.57406
	A2->Y (RR)	0.05405	0.20478	0.56661
	B0->Y (RR)	0.05475	0.20833	0.57630

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X2H7R	A0->Y (FF)	0.10807	0.23994	0.54739
	A1->Y (FF)	0.10312	0.24336	0.56958
	A2->Y (FF)	0.09824	0.23994	0.56985
	B0->Y (FF)	0.04155	0.16802	0.46870

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X2H7R	A0	0.00071	0.00078	0.00096
	A0	0.00008	0.00009	0.00009
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00190	0.00197	0.00215
	A1	0.00073	0.00080	0.00099
	A1	0.00002	0.00005	0.00005
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00176	0.00183	0.00202
	A2	0.00073	0.00081	0.00101
	A2	0.00000	0.00000	0.00000
	A2	-0.00005	-0.00005	-0.00004
	A2	0.00165	0.00173	0.00193
	B0	0.00070	0.00084	0.00126
	B0	0.00008	0.00009	0.00009
	B0	0.00001	0.00002	0.00003
	B0	0.00163	0.00175	0.00214

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X2H7R	**A0**	0.00207	0.00214	0.00239
	A0	-0.00009	-0.00009	-0.00007
	A0	0.00005	0.00005	0.00005
	A0	0.00086	0.00094	0.00119
	A1	0.00192	0.00199	0.00231
	A1	-0.00005	-0.00004	-0.00002
	A1	0.00005	0.00005	0.00005
	A1	0.00088	0.00097	0.00129
	A2	0.00179	0.00189	0.00236
	A2	-0.00000	-0.00000	0.00001
	A2	0.00005	0.00005	0.00005
	A2	0.00089	0.00100	0.00147
	B0	0.00182	0.00195	0.00242
	B0	-0.00000	-0.00000	0.00000
	B0	-0.00002	-0.00002	0.00000
	B0	0.00086	0.00101	0.00148

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7R	(A1 * A2 * B0 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * !Y)	-0.00017	-0.00016	-0.00015
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00018	0.00019	0.00019
	(A1 * !A2 * B0 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * !A2 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * Y)	0.00027	0.00027	0.00027
	(!A1 * A2 * B0 * Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * Y)	0.00027	0.00027	0.00027
	(!A1 * A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !A2 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00016	0.00017	0.00017

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7R	(A1 * A2 * B0 * Y)	0.00008	0.00008	0.00008
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00019	-0.00018	-0.00018
	(A1 * !A2 * B0 * Y)	0.00008	0.00008	0.00008
	(A1 * !A2 * B0 * Y)	0.00001	0.00001	0.00002
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * B0 * Y)	0.00008	0.00008	0.00008
	(!A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * !B0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !A2 * !B0 * !Y)	0.00018	0.00019	0.00019
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7R	(A0 * A2 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00022	0.00022	0.00023
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A2 * !B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * !Y)	0.00017	0.00018	0.00018
	(A0 * !A2 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00022	0.00022	0.00022
	(A0 * !A2 * !B0 * !Y)	-0.00013	-0.00012	-0.00011
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * A2 * B0 * Y)	-0.00008	-0.00008	-0.00006
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * Y)	0.00022	0.00022	0.00023
	(!A0 * A2 * !B0 * !Y)	-0.00013	-0.00012	-0.00011
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * A2 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A2 * !B0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * !A2 * !B0 * !Y)	0.00015	0.00016	0.00016

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7R	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00004	0.00004	0.00004
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * A2 * !B0 * !Y)	0.00004	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * A2 * B0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A2 * !B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !A2 * !B0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * !B0 * !Y)	-0.00014	-0.00013	-0.00011
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * !B0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00015	0.00016	0.00016

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00017	-0.00017	-0.00016
	(A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !B0 * !Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7R	(!A0 * !A1 * !A2 * !Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * !Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X2H7R	(!A0 * !A1 * !A2 * !Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * !A2 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00009

OA31X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X3H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X3H7R	0.00087	0.00081	0.00085	0.00084	0.12033

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X3H7R	0.00000	0.38480	0.51069

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X3H7R	A0->Y (RR)	0.05268	0.20505	0.57042
	A1->Y (RR)	0.04964	0.20053	0.56270
	A2->Y (RR)	0.04670	0.19579	0.55464
	B0->Y (RR)	0.04779	0.19982	0.56423

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X3H7R	A0->Y (FF)	0.09427	0.22520	0.52998
	A1->Y (FF)	0.09008	0.22862	0.55007
	A2->Y (FF)	0.08468	0.22414	0.54771
	B0->Y (FF)	0.03531	0.16054	0.45860

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X3H7R	A0	0.00085	0.00094	0.00120
	A0	0.00011	0.00012	0.00012
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00224	0.00234	0.00260
	A1	0.00087	0.00096	0.00123
	A1	0.00005	0.00006	0.00006
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00207	0.00217	0.00244
	A2	0.00086	0.00097	0.00127
	A2	0.00000	0.00000	0.00000
	A2	-0.00007	-0.00006	-0.00005
	A2	0.00191	0.00202	0.00232
	B0	0.00084	0.00102	0.00160
	B0	0.00011	0.00012	0.00012
	B0	0.00002	0.00003	0.00006
	B0	0.00191	0.00208	0.00261

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X3H7R	**A0**	0.00243	0.00252	0.00286
	A0	-0.00012	-0.00012	-0.00010
	A0	0.00006	0.00007	0.00008
	A0	0.00101	0.00110	0.00145
	A1	0.00222	0.00234	0.00278
	A1	-0.00006	-0.00006	-0.00002
	A1	0.00007	0.00007	0.00007
	A1	0.00105	0.00114	0.00158
	A2	0.00206	0.00220	0.00284
	A2	-0.00000	0.00000	0.00003
	A2	0.00006	0.00007	0.00007
	A2	0.00104	0.00118	0.00182
	B0	0.00213	0.00231	0.00296
	B0	-0.00000	-0.00000	0.00002
	B0	-0.00003	-0.00002	0.00000
	B0	0.00102	0.00120	0.00185

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7R	(A1 * A2 * B0 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * A2 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * Y)	0.00029	0.00030	0.00030
	(A1 * !B0 * !Y)	-0.00020	-0.00019	-0.00017
	(A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !A2 * B0 * Y)	-0.00011	-0.00010	-0.00008
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * Y)	0.00000	0.00001	0.00000
	(A1 * !A2 * B0 * Y)	0.00029	0.00030	0.00030
	(!A1 * A2 * B0 * Y)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * Y)	0.00030	0.00030	0.00030
	(!A1 * A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00016
	(!A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00001	0.00002
	(!A1 * A2 * !B0 * !Y)	0.00020	0.00021	0.00021
	(!A1 * !A2 * !B0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7R	(A1 * A2 * B0 * Y)	0.00011	0.00011	0.00011
	(A1 * A2 * B0 * Y)	0.00001	0.00001	0.00002
	(A1 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * Y)	-0.00030	-0.00030	-0.00029
	(A1 * !B0 * !Y)	0.00019	0.00019	0.00020
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A1 * !A2 * B0 * Y)	0.00011	0.00011	0.00012
	(A1 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * A2 * B0 * Y)	0.00011	0.00011	0.00011
	(!A1 * A2 * B0 * Y)	0.00001	0.00001	0.00002
	(!A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * A2 * !B0 * !Y)	0.00019	0.00019	0.00019
	(!A1 * A2 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00021	-0.00021	-0.00020
	(!A1 * !A2 * !B0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7R	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * Y)	0.00025	0.00025	0.00025
	(A0 * A2 * !B0 * !Y)	-0.00004	-0.00005	-0.00004
	(A0 * A2 * !B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * !Y)	0.00019	0.00020	0.00020
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00001
	(A0 * !A2 * B0 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00024	0.00025	0.00025
	(A0 * !A2 * !B0 * !Y)	-0.00016	-0.00015	-0.00014
	(A0 * !A2 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * B0 * Y)	-0.00011	-0.00010	-0.00009
	(!A0 * A2 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00024	0.00025	0.00026
	(!A0 * A2 * !B0 * !Y)	-0.00016	-0.00015	-0.00013
	(!A0 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A2 * !B0 * !Y)	-0.00000	0.00000	0.00001
	(!A0 * A2 * !B0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * !A2 * !B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7R	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00006	0.00006	0.00006
	(A0 * A2 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * Y)	-0.00025	-0.00024	-0.00024
	(A0 * A2 * !B0 * !Y)	0.00004	0.00005	0.00004
	(A0 * A2 * !B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * !B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A2 * B0 * Y)	0.00004	0.00004	0.00005
	(A0 * !A2 * B0 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00025	-0.00024	-0.00024
	(A0 * !A2 * !B0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * A2 * B0 * Y)	0.00011	0.00012	0.00012
	(!A0 * A2 * B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A2 * !B0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * A2 * !B0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * !B0 * !Y)	0.00018	0.00018	0.00019
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * !Y)	-0.00017	-0.00016	-0.00014
	(A1 * !B0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * Y)	0.00029	0.00030	0.00030
	(A0 * !A1 * !B0 * !Y)	-0.00016	-0.00015	-0.00013
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7R	(A1 * B0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * Y)	-0.00000	-0.00001	-0.00000
	(A1 * B0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !Y)	-0.00000	-0.00000	0.00001
	(A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00019
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00003
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00030	-0.00029	-0.00029
	(A0 * !A1 * !B0 * !Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00001
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !A1 * !B0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7R	(!A0 * !A1 * !A2 * !Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !A1 * !A2 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X3H7R	(!A0 * !A1 * !A2 * !Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00009

OA31X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OA31 (Y = (A0 + A1 + A2) • B0)

Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	0
0	x	1	0	0
0	x	1	1	1
x	1	x	0	0
x	1	x	1	1
1	x	x	0	0
1	x	x	1	1

Footprint

Cell Name	Area
OA31X4H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OA31X4H7R	0.00094	0.00087	0.00092	0.00090	0.15424

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OA31X4H7R	0.00000	0.47327	0.63147

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X4H7R	A0->Y (RR)	0.04978	0.20189	0.56648
	A1->Y (RR)	0.04696	0.19748	0.55811
	A2->Y (RR)	0.04404	0.19280	0.55030
	B0->Y (RR)	0.04503	0.19658	0.55885

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OA31X4H7R	A0->Y (FF)	0.09243	0.22394	0.52861
	A1->Y (FF)	0.08842	0.22733	0.54844
	A2->Y (FF)	0.08294	0.22273	0.54577
	B0->Y (FF)	0.03375	0.15910	0.45647

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X4H7R	A0	0.00100	0.00111	0.00144
	A0	0.00011	0.00012	0.00012
	A0	-0.00008	-0.00007	-0.00007
	A0	0.00252	0.00263	0.00296
	A1	0.00102	0.00113	0.00148
	A1	0.00006	0.00006	0.00006
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00231	0.00243	0.00277
	A2	0.00102	0.00114	0.00152
	A2	-0.00001	-0.00001	0.00000
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00214	0.00226	0.00264
	B0	0.00101	0.00119	0.00192
	B0	0.00012	0.00012	0.00013
	B0	0.00003	0.00004	0.00007
	B0	0.00214	0.00232	0.00299

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OA31X4H7R	**A0**	0.00271	0.00282	0.00327
	A0	-0.00012	-0.00012	-0.00008
	A0	0.00007	0.00007	0.00008
	A0	0.00117	0.00129	0.00174
	A1	0.00251	0.00262	0.00319
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00007	0.00007	0.00007
	A1	0.00122	0.00133	0.00191
	A2	0.00231	0.00246	0.00329
	A2	0.00000	0.00001	0.00003
	A2	0.00007	0.00007	0.00007
	A2	0.00122	0.00137	0.00220
	B0	0.00237	0.00257	0.00339
	B0	0.00000	0.00001	0.00001
	B0	-0.00004	-0.00004	0.00000
	B0	0.00117	0.00139	0.00220

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7R	(A1 * A2 * B0 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * Y)	0.00031	0.00032	0.00032
	(A1 * !B0 * !Y)	-0.00021	-0.00020	-0.00019
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00022	0.00023	0.00023
	(A1 * !A2 * B0 * Y)	-0.00012	-0.00012	-0.00010
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	0.00032	0.00032	0.00032
	(!A1 * A2 * B0 * Y)	-0.00012	-0.00011	-0.00009
	(!A1 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * Y)	0.00032	0.00032	0.00032
	(!A1 * A2 * !B0 * !Y)	-0.00021	-0.00019	-0.00017
	(!A1 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * !Y)	0.00000	0.00001	0.00002
	(!A1 * A2 * !B0 * !Y)	0.00022	0.00023	0.00023
	(!A1 * !A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00002
	(!A1 * !A2 * !B0 * !Y)	0.00021	0.00021	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7R	(A1 * A2 * B0 * Y)	0.00012	0.00012	0.00012
	(A1 * A2 * B0 * Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * Y)	-0.00032	-0.00032	-0.00031
	(A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(A1 * !A2 * B0 * Y)	0.00013	0.00013	0.00014
	(A1 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * Y)	-0.00032	-0.00032	-0.00031
	(!A1 * A2 * B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * A2 * B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * Y)	-0.00032	-0.00032	-0.00031
	(!A1 * A2 * !B0 * !Y)	0.00020	0.00020	0.00021
	(!A1 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(!A1 * A2 * !B0 * !Y)	-0.00023	-0.00023	-0.00022
	(!A1 * !A2 * !B0 * !Y)	0.00023	0.00024	0.00024
	(!A1 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !Y)	-0.00002	-0.00001	0.00000
	(!A1 * !A2 * !B0 * !Y)	-0.00021	-0.00019	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7R	(A0 * A2 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	-0.00007	-0.00007	-0.00006
	(A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * Y)	0.00026	0.00026	0.00027
	(A0 * A2 * !B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * A2 * !B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A2 * !B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * A2 * !B0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A2 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * Y)	0.00026	0.00026	0.00026
	(A0 * !A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015
	(A0 * !A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * A2 * B0 * Y)	-0.00013	-0.00012	-0.00009
	(!A0 * A2 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A2 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * Y)	0.00026	0.00026	0.00028
	(!A0 * A2 * !B0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A0 * A2 * !B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * !Y)	0.00021	0.00021	0.00022
	(!A0 * !A2 * !B0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !A2 * !B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7R	(A0 * A2 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * Y)	0.00006	0.00007	0.00007
	(A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * A2 * !B0 * !Y)	0.00004	0.00005	0.00005
	(A0 * A2 * !B0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A2 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * A2 * !B0 * !Y)	-0.00022	-0.00021	-0.00021
	(A0 * !A2 * B0 * Y)	-0.00000	0.00000	0.00001
	(A0 * !A2 * B0 * Y)	0.00004	0.00005	0.00005
	(A0 * !A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(A0 * !A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !A2 * !B0 * !Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A2 * B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A2 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A2 * !B0 * !Y)	0.00017	0.00017	0.00017
	(!A0 * A2 * !B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A2 * !B0 * !Y)	0.00020	0.00020	0.00020
	(!A0 * !A2 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !Y)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * Y)	0.00031	0.00032	0.00032
	(A1 * !B0 * !Y)	-0.00018	-0.00017	-0.00016
	(A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * Y)	0.00032	0.00032	0.00032
	(A0 * !A1 * !B0 * !Y)	-0.00018	-0.00016	-0.00014
	(A0 * !A1 * !B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * !B0 * !Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !Y)	-0.00000	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7R	(A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * Y)	-0.00032	-0.00032	-0.00031
	(A1 * !B0 * !Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !Y)	-0.00001	-0.00000	0.00001
	(A1 * !B0 * !Y)	-0.00022	-0.00022	-0.00021
	(A0 * !A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * Y)	-0.00032	-0.00032	-0.00031
	(A0 * !A1 * !B0 * !Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B0 * !Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * !B0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A0 * !A1 * !B0 * !Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7R	(!A0 * !A1 * !A2 * !Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !A1 * !A2 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

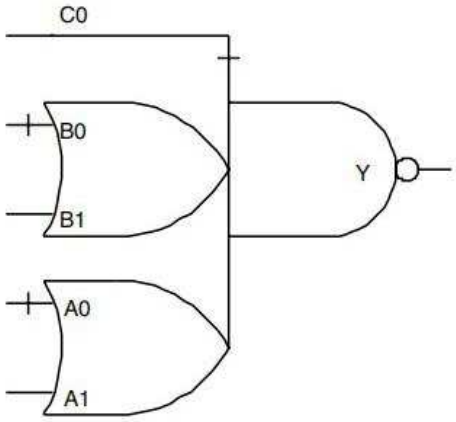
Cell Name	When	Power(pJ)		
		min	avg	max
OA31X4H7R	(!A0 * !A1 * !A2 * !Y)	0.00025	0.00025	0.00026
	(!A0 * !A1 * !A2 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * !Y)	-0.00009	-0.00009	-0.00008

OAI211X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X0P5H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X0P5H7R	0.00065	0.00073	0.00069	0.00073	0.02115

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X0P5H7R	0.00000	0.08043	0.15370

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X0P5H7R	A0->Y (FR)	0.04452	0.19685	0.64285
	A1->Y (FR)	0.04338	0.19859	0.66107
	B0->Y (FR)	0.02044	0.12094	0.46482
	C0->Y (FR)	0.01930	0.11854	0.46281

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X0P5H7R	A0->Y (RF)	0.04090	0.17806	0.57911
	A1->Y (RF)	0.03892	0.17429	0.57493
	B0->Y (RF)	0.03702	0.17863	0.61384
	C0->Y (RF)	0.03471	0.17439	0.60858

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X0P5H7R	A0	0.00114	0.00118	0.00134
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00010	0.00010	0.00010
	A0	-0.00003	-0.00000	0.00015
	A1	0.00103	0.00109	0.00134
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00010	0.00010	0.00010
	A1	0.00002	0.00006	0.00030
	B0	0.00088	0.00094	0.00126
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00005	0.00005	0.00008
	B0	-0.00005	0.00001	0.00034
	C0	0.00080	0.00087	0.00122
	C0	-0.00007	-0.00007	-0.00006
	C0	0.00001	0.00002	0.00002
	C0	-0.00004	0.00003	0.00040

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X0P5H7R	A0	-0.00007	-0.00005	0.00005
	A0	0.00011	0.00011	0.00011
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00114	0.00117	0.00126
	A1	-0.00008	-0.00005	0.00006
	A1	0.00007	0.00007	0.00007
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00099	0.00103	0.00113
	B0	-0.00008	-0.00004	0.00018
	B0	0.00011	0.00011	0.00011
	B0	-0.00006	-0.00005	-0.00005
	B0	0.00085	0.00089	0.00108
	C0	-0.00008	-0.00003	0.00028
	C0	0.00011	0.00011	0.00011
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00074	0.00079	0.00107

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7R	(A1 * B0 * C0 * !Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00025	0.00026	0.00026
	(A1 * B0 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A1 * B0 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7R	(A1 * B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !C0 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * !C0 * Y)	0.00009	0.00009	0.00010
	(!A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	-0.00023	-0.00021	-0.00019
	(!A1 * !B0 * C0 * Y)	0.00009	0.00009	0.00009
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * !C0 * Y)	0.00009	0.00009	0.00009
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7R	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * B0 * !C0 * Y)	-0.00012	-0.00012	-0.00010
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00011
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(A0 * !B0 * !C0 * Y)	-0.00012	-0.00012	-0.00011
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * B0 * !C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7R	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00019	-0.00019	-0.00018
	(A0 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * !B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00016	-0.00015	-0.00013
	(!A0 * !B0 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00017	-0.00015	-0.00014
	(!A0 * !B0 * !C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7R	(A1 * !C0 * Y)	-0.00014	-0.00014	-0.00014
	(A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * Y)	0.00017	0.00017	0.00017
	(A0 * !A1 * !C0 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7R	(A1 * !C0 * Y)	0.00014	0.00015	0.00015
	(A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * Y)	-0.00017	-0.00016	-0.00015
	(A0 * !A1 * !C0 * Y)	0.00014	0.00015	0.00015
	(A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7R	(A1 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for C0 falling (conditional):

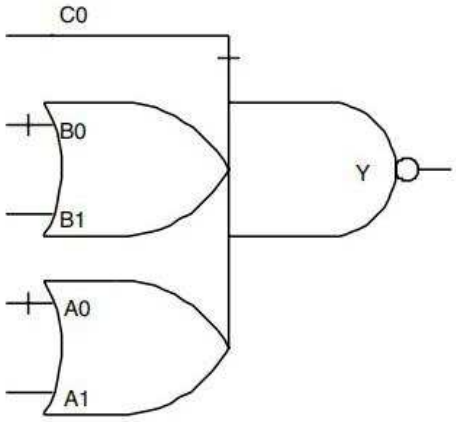
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P5H7R	(A1 * !B0 * Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00006	-0.00006	-0.00006

OAI211X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X0P7H7R	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X0P7H7R	0.00069	0.00076	0.00076	0.00083	0.02399

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X0P7H7R	0.00000	0.09067	0.16899

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X0P7H7R	A0->Y (FR)	0.04138	0.19434	0.64361
	A1->Y (FR)	0.04003	0.19567	0.66145
	B0->Y (FR)	0.01975	0.12026	0.46538
	C0->Y (FR)	0.01864	0.11791	0.46381

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X0P7H7R	A0->Y (RF)	0.03818	0.17495	0.57723
	A1->Y (RF)	0.03583	0.17092	0.57299
	B0->Y (RF)	0.03570	0.17744	0.61186
	C0->Y (RF)	0.03336	0.17299	0.60888

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X0P7H7R	A0	0.00122	0.00126	0.00144
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00012	0.00012	0.00012
	A0	-0.00005	-0.00002	0.00016
	A1	0.00110	0.00116	0.00144
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00012	0.00012	0.00012
	A1	0.00001	0.00006	0.00033
	B0	0.00098	0.00106	0.00141
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00006	0.00006	0.00007
	B0	-0.00005	0.00002	0.00038
	C0	0.00090	0.00098	0.00137
	C0	-0.00008	-0.00008	-0.00007
	C0	0.00002	0.00002	0.00003
	C0	-0.00005	0.00003	0.00043

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X0P7H7R	A0	-0.00007	-0.00005	0.00006
	A0	0.00013	0.00013	0.00013
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00122	0.00125	0.00138
	A1	-0.00009	-0.00005	0.00008
	A1	0.00008	0.00008	0.00008
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00106	0.00110	0.00123
	B0	-0.00009	-0.00005	0.00019
	B0	0.00013	0.00013	0.00013
	B0	-0.00007	-0.00006	-0.00006
	B0	0.00093	0.00099	0.00119
	C0	-0.00010	-0.00003	0.00032
	C0	0.00013	0.00013	0.00013
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00083	0.00090	0.00121

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7R	(A1 * B0 * C0 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00026	0.00026	0.00027
	(A1 * B0 * !C0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * B0 * !C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * !C0 * Y)	-0.00010	-0.00011	-0.00010
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7R	(A1 * B0 * C0 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0 * !C0 * Y)	0.00010	0.00011	0.00011
	(!A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	-0.00024	-0.00023	-0.00021
	(!A1 * !B0 * C0 * Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * !C0 * Y)	0.00010	0.00011	0.00010
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7R	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(A0 * B0 * !C0 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * B0 * !C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7R	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00018	-0.00016	-0.00014
	(!A0 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7R	(A1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !C0 * Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7R	(A1 * !C0 * Y)	0.00017	0.00017	0.00018
	(A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !C0 * Y)	-0.00018	-0.00017	-0.00016
	(A0 * !A1 * !C0 * Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * Y)	-0.00017	-0.00017	-0.00015
	(!A0 * !A1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !C0 * Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7R	(A1 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

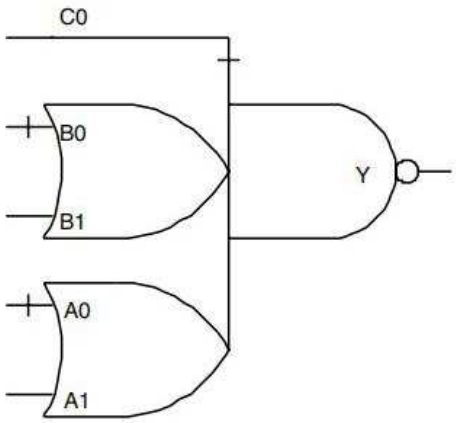
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X0P7H7R	(A1 * !B0 * Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00007	-0.00007	-0.00007

OAI211X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X1H7R	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X1H7R	0.00074	0.00083	0.00084	0.00089	0.02862

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X1H7R	0.00000	0.10565	0.19498

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X1H7R	A0->Y (FR)	0.03779	0.19154	0.64479
	A1->Y (FR)	0.03617	0.19231	0.66198
	B0->Y (FR)	0.01810	0.11841	0.46662
	C0->Y (FR)	0.01686	0.11596	0.46470

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X1H7R	A0->Y (RF)	0.03556	0.17460	0.58406
	A1->Y (RF)	0.03294	0.17009	0.57927
	B0->Y (RF)	0.03329	0.17746	0.62097
	C0->Y (RF)	0.03069	0.17248	0.61608

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X1H7R	A0	0.00134	0.00139	0.00161
	A0	-0.00016	-0.00016	-0.00015
	A0	0.00014	0.00014	0.00014
	A0	-0.00008	-0.00004	0.00016
	A1	0.00119	0.00127	0.00160
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00014	0.00014	0.00014
	A1	-0.00003	0.00003	0.00035
	B0	0.00107	0.00118	0.00159
	B0	-0.00010	-0.00010	-0.00009
	B0	0.00006	0.00007	0.00008
	B0	-0.00008	0.00000	0.00042
	C0	0.00100	0.00108	0.00154
	C0	-0.00010	-0.00010	-0.00009
	C0	0.00002	0.00002	0.00003
	C0	-0.00007	0.00002	0.00050

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X1H7R	A0	-0.00009	-0.00006	0.00007
	A0	0.00015	0.00016	0.00016
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00136	0.00140	0.00155
	A1	-0.00010	-0.00006	0.00011
	A1	0.00010	0.00010	0.00010
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00118	0.00122	0.00139
	B0	-0.00011	-0.00005	0.00023
	B0	0.00015	0.00016	0.00016
	B0	-0.00007	-0.00007	-0.00004
	B0	0.00106	0.00112	0.00136
	C0	-0.00011	-0.00003	0.00039
	C0	0.00015	0.00016	0.00016
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00091	0.00100	0.00137

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7R	(A1 * B0 * C0 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00027	0.00028	0.00028
	(A1 * B0 * !C0 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00027	0.00027	0.00028
	(A1 * !B0 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * Y)	0.00027	0.00028	0.00028
	(!A1 * B0 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7R	(A1 * B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00028	-0.00027	-0.00027
	(A1 * B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0 * !C0 * Y)	0.00012	0.00013	0.00013
	(!A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	-0.00025	-0.00023	-0.00021
	(!A1 * !B0 * C0 * Y)	0.00012	0.00013	0.00013
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00025	-0.00024	-0.00022
	(!A1 * !B0 * !C0 * Y)	0.00012	0.00013	0.00013
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7R	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !C0 * Y)	-0.00014	-0.00013	-0.00012
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(A0 * !B0 * C0 * Y)	-0.00014	-0.00013	-0.00012
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A0 * !B0 * !C0 * Y)	-0.00014	-0.00013	-0.00012
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * B0 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7R	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00022	-0.00022	-0.00021
	(A0 * !B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00022	-0.00022	-0.00021
	(!A0 * B0 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00019	-0.00017	-0.00015
	(!A0 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !B0 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7R	(A1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * Y)	0.00019	0.00020	0.00020
	(A0 * !A1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * C0 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * C0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(!A0 * !A1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7R	(A1 * !C0 * Y)	0.00019	0.00020	0.00020
	(A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * Y)	-0.00019	-0.00018	-0.00017
	(A0 * !A1 * !C0 * Y)	0.00019	0.00020	0.00021
	(A0 * !A1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * C0 * Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7R	(A1 * !B0 * Y)	-0.00027	-0.00027	-0.00026
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C0 falling (conditional):

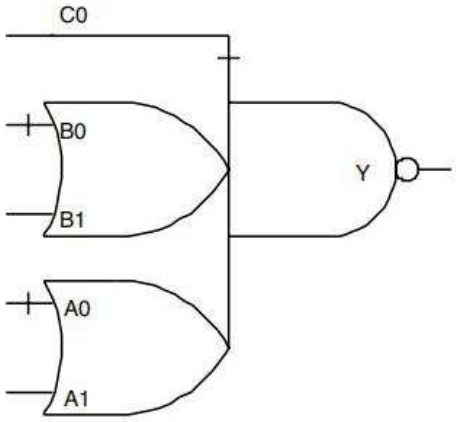
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1H7R	(A1 * !B0 * Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * Y)	0.00026	0.00027	0.00027
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * Y)	0.00026	0.00027	0.00027
	(!A0 * !A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00007	-0.00007	-0.00007

OAI211X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X1P4H7R	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X1P4H7R	0.00081	0.00089	0.00089	0.00095	0.03271

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X1P4H7R	0.00000	0.12001	0.22125

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X1P4H7R	A0->Y (FR)	0.03563	0.18992	0.64670
	A1->Y (FR)	0.03381	0.19027	0.66245
	B0->Y (FR)	0.01697	0.11728	0.46747
	C0->Y (FR)	0.01571	0.11474	0.46577

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X1P4H7R	A0->Y (RF)	0.03342	0.17203	0.58199
	A1->Y (RF)	0.03068	0.16726	0.57722
	B0->Y (RF)	0.03117	0.17509	0.61994
	C0->Y (RF)	0.02848	0.16988	0.61242

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X1P4H7R	A0	0.00145	0.00152	0.00176
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00016	0.00016	0.00016
	A0	-0.00011	-0.00007	0.00017
	A1	0.00128	0.00136	0.00174
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00016	0.00016	0.00016
	A1	-0.00005	0.00001	0.00038
	B0	0.00118	0.00128	0.00175
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00006	0.00009	0.00012
	B0	-0.00012	-0.00001	0.00047
	C0	0.00108	0.00117	0.00171
	C0	-0.00011	-0.00011	-0.00010
	C0	0.00002	0.00003	0.00004
	C0	-0.00010	0.00001	0.00057

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X1P4H7R	A0	-0.00010	-0.00007	0.00009
	A0	0.00018	0.00018	0.00018
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00149	0.00154	0.00171
	A1	-0.00011	-0.00006	0.00013
	A1	0.00011	0.00011	0.00012
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00129	0.00134	0.00154
	B0	-0.00012	-0.00006	0.00027
	B0	0.00018	0.00018	0.00018
	B0	-0.00009	-0.00008	-0.00006
	B0	0.00117	0.00123	0.00151
	C0	-0.00013	-0.00004	0.00045
	C0	0.00018	0.00018	0.00018
	C0	-0.00003	-0.00003	-0.00001
	C0	0.00099	0.00109	0.00153

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7R	(A1 * B0 * C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00029	0.00029	0.00030
	(A1 * B0 * !C0 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * B0 * !C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7R	(A1 * B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B0 * !C0 * Y)	0.00014	0.00014	0.00015
	(!A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * Y)	-0.00026	-0.00024	-0.00022
	(!A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00026	-0.00025	-0.00023
	(!A1 * !B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00026	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7R	(A0 * B0 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !C0 * Y)	-0.00015	-0.00015	-0.00013
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * C0 * Y)	-0.00015	-0.00015	-0.00013
	(A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	0.00023	0.00023	0.00023
	(A0 * !B0 * !C0 * Y)	-0.00016	-0.00015	-0.00013
	(A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * B0 * !C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00020	0.00021	0.00021
	(!A0 * !B0 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7R	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0 * !C0 * Y)	0.00015	0.00015	0.00016
	(A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7R	(A1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * Y)	0.00021	0.00021	0.00021
	(A0 * !A1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7R	(A1 * !C0 * Y)	0.00021	0.00021	0.00022
	(A1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * Y)	-0.00020	-0.00019	-0.00018
	(A0 * !A1 * !C0 * Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7R	(A1 * !B0 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	0.00006	0.00007	0.00007
	(!A1 * !B0 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C0 falling (conditional):

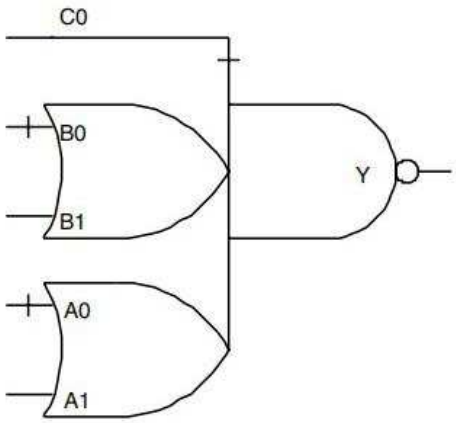
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X1P4H7R	(A1 * !B0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	-0.00007	-0.00006	-0.00006
	(!A1 * !B0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B0 * Y)	0.00029	0.00029	0.00029
	(!A0 * !A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00007	-0.00007	-0.00007

OAI211X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X2H7R	0.00089	0.00098	0.00098	0.00105	0.03849

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X2H7R	0.00000	0.14199	0.26267

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X2H7R	A0->Y (FR)	0.03371	0.18859	0.64939
	A1->Y (FR)	0.03164	0.18856	0.66352
	B0->Y (FR)	0.01594	0.11627	0.46861
	C0->Y (FR)	0.01439	0.11287	0.46592

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X2H7R	A0->Y (RF)	0.03104	0.16723	0.57359
	A1->Y (RF)	0.02819	0.16215	0.56726
	B0->Y (RF)	0.02874	0.17045	0.61116
	C0->Y (RF)	0.02594	0.16497	0.60416

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X2H7R	A0	0.00160	0.00172	0.00200
	A0	-0.00022	-0.00022	-0.00022
	A0	0.00019	0.00019	0.00019
	A0	-0.00014	-0.00009	0.00019
	A1	0.00144	0.00153	0.00198
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00019	0.00019	0.00019
	A1	-0.00009	-0.00001	0.00043
	B0	0.00134	0.00146	0.00201
	B0	-0.00014	-0.00013	-0.00012
	B0	0.00007	0.00010	0.00012
	B0	-0.00013	-0.00002	0.00054
	C0	0.00119	0.00131	0.00196
	C0	-0.00014	-0.00013	-0.00013
	C0	0.00002	0.00003	0.00005
	C0	-0.00013	0.00000	0.00068

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X2H7R	A0	-0.00012	-0.00009	0.00011
	A0	0.00022	0.00022	0.00022
	A0	-0.00019	-0.00019	-0.00019
	A0	0.00171	0.00176	0.00196
	A1	-0.00014	-0.00008	0.00017
	A1	0.00013	0.00014	0.00014
	A1	-0.00019	-0.00019	-0.00019
	A1	0.00146	0.00152	0.00178
	B0	-0.00014	-0.00007	0.00034
	B0	0.00022	0.00022	0.00022
	B0	-0.00011	-0.00010	-0.00007
	B0	0.00135	0.00140	0.00174
	C0	-0.00015	-0.00004	0.00056
	C0	0.00021	0.00022	0.00022
	C0	-0.00003	-0.00003	-0.00002
	C0	0.00112	0.00124	0.00177

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7R	(A1 * B0 * C0 * !Y)	-0.00015	-0.00013	-0.00012
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00031	0.00032	0.00033
	(A1 * B0 * !C0 * Y)	-0.00014	-0.00013	-0.00012
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * Y)	-0.00014	-0.00014	-0.00012
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00031	0.00031	0.00031
	(!A1 * B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7R	(A1 * B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00032	-0.00031	-0.00031
	(A1 * B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00031	-0.00031	-0.00031
	(!A1 * B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * Y)	-0.00028	-0.00026	-0.00023
	(!A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * Y)	-0.00028	-0.00027	-0.00024
	(!A1 * !B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00028	-0.00027	-0.00024

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7R	(A0 * B0 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00033	0.00033	0.00033
	(A0 * B0 * !C0 * Y)	-0.00018	-0.00017	-0.00015
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * C0 * Y)	-0.00018	-0.00017	-0.00015
	(A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * !C0 * Y)	-0.00018	-0.00017	-0.00016
	(A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7R	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !C0 * Y)	-0.00022	-0.00020	-0.00017
	(!A0 * !B0 * C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00018
	(!A0 * !B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00022	-0.00021	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7R	(A1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * Y)	0.00023	0.00024	0.00024
	(A0 * !A1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	0.00023	0.00024	0.00024
	(!A0 * !A1 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !C0 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7R	(A1 * !C0 * Y)	0.00023	0.00024	0.00025
	(A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * Y)	-0.00023	-0.00022	-0.00020
	(A0 * !A1 * !C0 * Y)	0.00024	0.00024	0.00025
	(A0 * !A1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * Y)	-0.00023	-0.00022	-0.00020
	(!A0 * !A1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * !A1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7R	(A1 * !B0 * Y)	-0.00033	-0.00033	-0.00032
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A1 * !B0 * Y)	-0.00033	-0.00033	-0.00032
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * Y)	-0.00033	-0.00033	-0.00032
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for C0 falling (conditional):

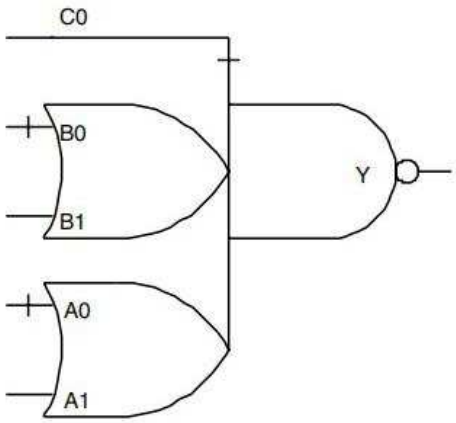
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X2H7R	(A1 * !B0 * Y)	0.00032	0.00033	0.00033
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A1 * !B0 * Y)	0.00032	0.00033	0.00033
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * Y)	0.00032	0.00033	0.00033
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * Y)	-0.00007	-0.00007	-0.00007

OAI211X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X3H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X3H7R	0.00151	0.00165	0.00157	0.00159	0.05950

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X3H7R	0.00000	0.22276	0.41245

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X3H7R	A0->Y (FR)	0.03521	0.19038	0.64773
	A1->Y (FR)	0.03216	0.18946	0.66364
	B0->Y (FR)	0.01604	0.11600	0.46570
	C0->Y (FR)	0.01357	0.11129	0.46155

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X3H7R	A0->Y (RF)	0.03349	0.17133	0.57966
	A1->Y (RF)	0.02961	0.16579	0.57509
	B0->Y (RF)	0.03025	0.17367	0.61787
	C0->Y (RF)	0.02456	0.16535	0.60818

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X3H7R	A0	0.00302	0.00310	0.00352
	A0	-0.00033	-0.00033	-0.00032
	A0	0.00029	0.00030	0.00030
	A0	-0.00003	0.00004	0.00045
	A1	0.00250	0.00266	0.00337
	A1	-0.00020	-0.00020	-0.00020
	A1	0.00029	0.00030	0.00030
	A1	-0.00003	0.00009	0.00079
	B0	0.00241	0.00262	0.00351
	B0	-0.00020	-0.00020	-0.00019
	B0	0.00010	0.00015	0.00022
	B0	-0.00012	0.00009	0.00099
	C0	0.00200	0.00219	0.00325
	C0	-0.00020	-0.00020	-0.00020
	C0	0.00004	0.00005	0.00008
	C0	-0.00018	0.00003	0.00115

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X3H7R	A0	-0.00022	-0.00016	0.00011
	A0	0.00032	0.00033	0.00033
	A0	-0.00030	-0.00030	-0.00029
	A0	0.00285	0.00294	0.00322
	A1	-0.00021	-0.00011	0.00024
	A1	0.00020	0.00020	0.00021
	A1	-0.00030	-0.00030	-0.00029
	A1	0.00249	0.00258	0.00294
	B0	-0.00014	-0.00004	0.00054
	B0	0.00033	0.00033	0.00033
	B0	-0.00016	-0.00015	-0.00010
	B0	0.00225	0.00237	0.00287
	C0	-0.00014	0.00002	0.00097
	C0	0.00032	0.00033	0.00033
	C0	-0.00005	-0.00005	-0.00002
	C0	0.00180	0.00200	0.00287

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7R	(A1 * B0 * C0 * !Y)	-0.00027	-0.00024	-0.00020
	(A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00050	0.00052	0.00055
	(A1 * B0 * !C0 * Y)	-0.00027	-0.00025	-0.00021
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00049	0.00050	0.00050
	(A1 * !B0 * Y)	-0.00027	-0.00025	-0.00022
	(A1 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00049	0.00050	0.00050
	(!A1 * B0 * !C0 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !C0 * Y)	0.00043	0.00044	0.00044
	(!A1 * !B0 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * C0 * Y)	0.00044	0.00044	0.00044
	(!A1 * !B0 * !C0 * Y)	-0.00034	-0.00034	-0.00033
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * Y)	0.00043	0.00043	0.00044

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7R	(A1 * B0 * C0 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00050	-0.00050	-0.00049
	(A1 * B0 * !C0 * Y)	0.00027	0.00027	0.00028
	(A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00049	-0.00049	-0.00049
	(A1 * !B0 * Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * Y)	0.00003	0.00003	0.00004
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00049	-0.00049	-0.00049
	(!A1 * B0 * !C0 * Y)	0.00034	0.00034	0.00035
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !C0 * Y)	-0.00043	-0.00040	-0.00036
	(!A1 * !B0 * C0 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * C0 * Y)	-0.00044	-0.00042	-0.00038
	(!A1 * !B0 * !C0 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * Y)	-0.00044	-0.00041	-0.00038

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7R	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00062	0.00062	0.00062
	(A0 * B0 * !C0 * Y)	-0.00033	-0.00031	-0.00027
	(A0 * B0 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !C0 * Y)	0.00046	0.00046	0.00046
	(A0 * !B0 * C0 * Y)	-0.00033	-0.00031	-0.00027
	(A0 * !B0 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	0.00046	0.00046	0.00046
	(A0 * !B0 * !C0 * Y)	-0.00033	-0.00031	-0.00027
	(A0 * !B0 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00046	0.00046	0.00046
	(!A0 * B0 * !C0 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * !C0 * Y)	0.00039	0.00039	0.00040
	(!A0 * !B0 * C0 * Y)	-0.00040	-0.00040	-0.00039
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !B0 * C0 * Y)	0.00040	0.00040	0.00041
	(!A0 * !B0 * !C0 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !C0 * Y)	0.00039	0.00039	0.00040

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7R	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00006	0.00006	0.00006
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00062	-0.00062	-0.00061
	(A0 * B0 * !C0 * Y)	0.00033	0.00033	0.00033
	(A0 * B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	-0.00046	-0.00046	-0.00045
	(A0 * !B0 * C0 * Y)	0.00033	0.00033	0.00033
	(A0 * !B0 * C0 * Y)	0.00003	0.00003	0.00004
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	-0.00046	-0.00046	-0.00045
	(A0 * !B0 * !C0 * Y)	0.00033	0.00033	0.00033
	(A0 * !B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	-0.00046	-0.00046	-0.00045
	(!A0 * B0 * !C0 * Y)	0.00040	0.00040	0.00041
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !C0 * Y)	-0.00039	-0.00036	-0.00032
	(!A0 * !B0 * C0 * Y)	0.00040	0.00040	0.00040
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !B0 * C0 * Y)	-0.00040	-0.00037	-0.00033
	(!A0 * !B0 * !C0 * Y)	0.00040	0.00040	0.00040
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * Y)	-0.00039	-0.00037	-0.00033

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7R	(A1 * !C0 * Y)	-0.00034	-0.00034	-0.00034
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !C0 * Y)	0.00044	0.00045	0.00045
	(A0 * !A1 * !C0 * Y)	-0.00034	-0.00034	-0.00033
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !C0 * Y)	0.00044	0.00045	0.00045
	(!A0 * !A1 * C0 * Y)	-0.00035	-0.00035	-0.00034
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !C0 * Y)	-0.00035	-0.00035	-0.00035
	(!A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !C0 * Y)	0.00015	0.00016	0.00016

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7R	(A1 * !C0 * Y)	0.00034	0.00035	0.00037
	(A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !C0 * Y)	-0.00044	-0.00042	-0.00038
	(A0 * !A1 * !C0 * Y)	0.00034	0.00035	0.00037
	(A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * Y)	-0.00044	-0.00042	-0.00037
	(!A0 * !A1 * C0 * Y)	0.00035	0.00035	0.00035
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !C0 * Y)	0.00036	0.00036	0.00036
	(!A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !C0 * Y)	-0.00016	-0.00016	-0.00015

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7R	(A1 * !B0 * Y)	-0.00047	-0.00047	-0.00046
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(A1 * !B0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * Y)	-0.00047	-0.00047	-0.00046
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * B0 * Y)	-0.00047	-0.00047	-0.00046
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for C0 falling (conditional):

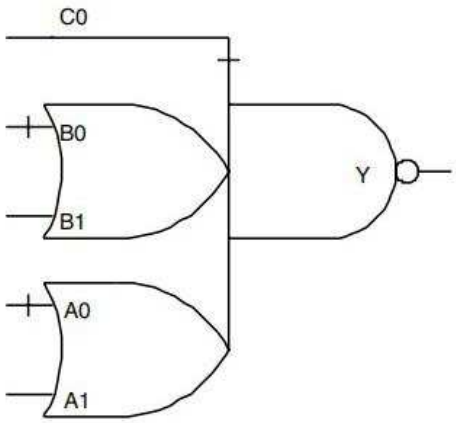
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X3H7R	(A1 * !B0 * Y)	0.00047	0.00047	0.00047
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00004	-0.00005	-0.00004
	(A1 * !B0 * Y)	-0.00016	-0.00016	-0.00015
	(!A1 * !B0 * Y)	0.00047	0.00047	0.00047
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00004	-0.00005	-0.00004
	(!A1 * !B0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A1 * B0 * Y)	0.00047	0.00047	0.00047
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * Y)	-0.00014	-0.00014	-0.00014

OAI211X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X4H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X4H7R	0.00184	0.00195	0.00193	0.00197	0.07601

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X4H7R	0.00000	0.28398	0.52533

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X4H7R	A0->Y (FR)	0.03373	0.18922	0.64997
	A1->Y (FR)	0.03035	0.18762	0.66382
	B0->Y (FR)	0.01539	0.11511	0.46620
	C0->Y (FR)	0.01319	0.11093	0.46249

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X4H7R	A0->Y (RF)	0.03178	0.16814	0.57435
	A1->Y (RF)	0.02763	0.16216	0.56954
	B0->Y (RF)	0.02897	0.17138	0.61353
	C0->Y (RF)	0.02409	0.16371	0.60465

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X4H7R	A0	0.00371	0.00386	0.00437
	A0	-0.00043	-0.00043	-0.00043
	A0	0.00038	0.00039	0.00039
	A0	-0.00007	0.00001	0.00052
	A1	0.00308	0.00326	0.00416
	A1	-0.00027	-0.00027	-0.00026
	A1	0.00038	0.00039	0.00039
	A1	-0.00010	0.00006	0.00094
	B0	0.00306	0.00332	0.00443
	B0	-0.00027	-0.00027	-0.00024
	B0	0.00020	0.00020	0.00027
	B0	-0.00007	0.00014	0.00121
	C0	0.00261	0.00284	0.00417
	C0	-0.00027	-0.00027	-0.00025
	C0	0.00005	0.00006	0.00010
	C0	-0.00021	0.00006	0.00146

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X4H7R	A0	-0.00029	-0.00021	0.00014
	A0	0.00043	0.00043	0.00043
	A0	-0.00039	-0.00039	-0.00038
	A0	0.00356	0.00368	0.00404
	A1	-0.00027	-0.00014	0.00034
	A1	0.00026	0.00027	0.00027
	A1	-0.00039	-0.00039	-0.00038
	A1	0.00307	0.00319	0.00368
	B0	-0.00021	-0.00007	0.00068
	B0	0.00043	0.00043	0.00043
	B0	-0.00020	-0.00020	-0.00016
	B0	0.00291	0.00301	0.00365
	C0	-0.00020	0.00000	0.00121
	C0	0.00043	0.00043	0.00043
	C0	-0.00006	-0.00006	-0.00001
	C0	0.00230	0.00256	0.00365

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7R	(A1 * B0 * C0 * !Y)	-0.00036	-0.00032	-0.00026
	(A1 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00057	0.00059	0.00063
	(A1 * B0 * !C0 * Y)	-0.00036	-0.00033	-0.00028
	(A1 * B0 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !C0 * Y)	0.00056	0.00056	0.00057
	(A1 * !B0 * Y)	-0.00036	-0.00033	-0.00029
	(A1 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00056	0.00056	0.00057
	(!A1 * B0 * !C0 * Y)	-0.00045	-0.00045	-0.00045
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !C0 * Y)	0.00048	0.00049	0.00049
	(!A1 * !B0 * C0 * Y)	-0.00045	-0.00045	-0.00045
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * C0 * Y)	0.00049	0.00050	0.00050
	(!A1 * !B0 * !C0 * Y)	-0.00045	-0.00045	-0.00045
	(!A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !C0 * Y)	0.00048	0.00049	0.00049

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7R	(A1 * B0 * C0 * !Y)	0.00037	0.00038	0.00038
	(A1 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00057	-0.00056	-0.00056
	(A1 * B0 * !C0 * Y)	0.00036	0.00036	0.00037
	(A1 * B0 * !C0 * Y)	0.00004	0.00005	0.00005
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	-0.00056	-0.00056	-0.00056
	(A1 * !B0 * Y)	0.00036	0.00036	0.00036
	(A1 * !B0 * Y)	0.00004	0.00005	0.00005
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00056	-0.00056	-0.00056
	(!A1 * B0 * !C0 * Y)	0.00046	0.00046	0.00046
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !C0 * Y)	-0.00048	-0.00045	-0.00040
	(!A1 * !B0 * C0 * Y)	0.00045	0.00045	0.00046
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * C0 * Y)	-0.00049	-0.00046	-0.00042
	(!A1 * !B0 * !C0 * Y)	0.00045	0.00045	0.00045
	(!A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !C0 * Y)	-0.00049	-0.00046	-0.00042

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7R	(A0 * B0 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00073	0.00073	0.00073
	(A0 * B0 * !C0 * Y)	-0.00043	-0.00039	-0.00034
	(A0 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !C0 * Y)	0.00052	0.00052	0.00053
	(A0 * !B0 * C0 * Y)	-0.00043	-0.00039	-0.00034
	(A0 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y)	0.00052	0.00052	0.00053
	(A0 * !B0 * !C0 * Y)	-0.00043	-0.00040	-0.00035
	(A0 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00052	0.00052	0.00052
	(!A0 * B0 * !C0 * Y)	-0.00051	-0.00051	-0.00051
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00003	0.00004	0.00004
	(!A0 * B0 * !C0 * Y)	0.00044	0.00044	0.00044
	(!A0 * !B0 * C0 * Y)	-0.00051	-0.00051	-0.00051
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * C0 * Y)	0.00044	0.00045	0.00045
	(!A0 * !B0 * !C0 * Y)	-0.00051	-0.00051	-0.00051
	(!A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !C0 * Y)	0.00043	0.00044	0.00044

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7R	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00073	-0.00073	-0.00072
	(A0 * B0 * !C0 * Y)	0.00042	0.00043	0.00043
	(A0 * B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	-0.00052	-0.00051	-0.00051
	(A0 * !B0 * C0 * Y)	0.00042	0.00043	0.00043
	(A0 * !B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y)	-0.00052	-0.00052	-0.00051
	(A0 * !B0 * !C0 * Y)	0.00043	0.00043	0.00043
	(A0 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	-0.00052	-0.00052	-0.00051
	(!A0 * B0 * !C0 * Y)	0.00051	0.00052	0.00052
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * B0 * !C0 * Y)	-0.00044	-0.00040	-0.00034
	(!A0 * !B0 * C0 * Y)	0.00051	0.00051	0.00051
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * C0 * Y)	-0.00044	-0.00041	-0.00036
	(!A0 * !B0 * !C0 * Y)	0.00051	0.00051	0.00051
	(!A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !C0 * Y)	-0.00044	-0.00041	-0.00037

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7R	(A1 * !C0 * Y)	-0.00046	-0.00046	-0.00045
	(A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !C0 * Y)	0.00002	0.00002	0.00003
	(A1 * !C0 * Y)	0.00050	0.00051	0.00051
	(A0 * !A1 * !C0 * Y)	-0.00046	-0.00046	-0.00045
	(A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !C0 * Y)	0.00050	0.00051	0.00051
	(!A0 * !A1 * C0 * Y)	-0.00047	-0.00047	-0.00047
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !C0 * Y)	-0.00047	-0.00047	-0.00047
	(!A0 * !A1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * !C0 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7R	(A1 * !C0 * Y)	0.00046	0.00047	0.00050
	(A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !C0 * Y)	-0.00049	-0.00047	-0.00042
	(A0 * !A1 * !C0 * Y)	0.00046	0.00047	0.00050
	(A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * Y)	-0.00050	-0.00047	-0.00042
	(!A0 * !A1 * C0 * Y)	0.00047	0.00047	0.00047
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !C0 * Y)	0.00048	0.00049	0.00049
	(!A0 * !A1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !C0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7R	(A1 * !B0 * Y)	-0.00061	-0.00061	-0.00060
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * Y)	0.00014	0.00014	0.00015
	(!A1 * !B0 * Y)	-0.00061	-0.00061	-0.00060
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * Y)	-0.00061	-0.00060	-0.00060
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * Y)	0.00012	0.00013	0.00013

Passive power(pJ) for C0 falling (conditional):

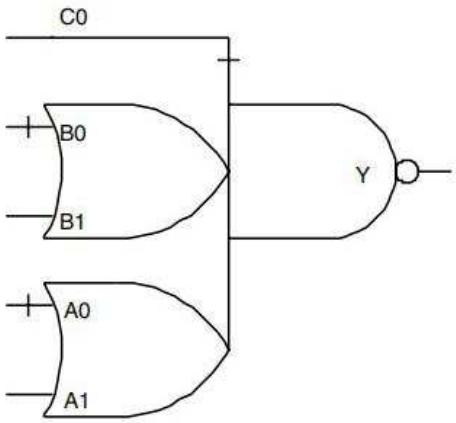
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X4H7R	(A1 * !B0 * Y)	0.00061	0.00061	0.00061
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * Y)	0.00061	0.00061	0.00061
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * B0 * Y)	0.00060	0.00061	0.00061
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * Y)	-0.00013	-0.00013	-0.00012

OAI211X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	x	1
x	1	0	x	1
x	1	1	0	1
x	1	1	1	0
1	x	0	x	1
1	x	1	0	1
1	x	1	1	0

Footprint

Cell Name	Area
OAI211X6H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**C0**	**Y**
OAI211X6H7R	0.00271	0.00275	0.00285	0.00295	0.11440

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI211X6H7R	0.00000	0.42597	0.78800

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X6H7R	A0->Y (FR)	0.03207	0.18773	0.64976
	A1->Y (FR)	0.02831	0.18568	0.66355
	B0->Y (FR)	0.01444	0.11400	0.46658
	C0->Y (FR)	0.01244	0.11011	0.46390

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI211X6H7R	A0->Y (RF)	0.03035	0.16751	0.57675
	A1->Y (RF)	0.02577	0.16070	0.57029
	B0->Y (RF)	0.02742	0.17050	0.61537
	C0->Y (RF)	0.02305	0.16380	0.60876

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X6H7R	A0	0.00550	0.00566	0.00645
	A0	-0.00065	-0.00065	-0.00064
	A0	0.00058	0.00058	0.00058
	A0	-0.00016	-0.00003	0.00074
	A1	0.00451	0.00477	0.00616
	A1	-0.00041	-0.00040	-0.00040
	A1	0.00057	0.00058	0.00058
	A1	-0.00017	0.00008	0.00144
	B0	0.00442	0.00481	0.00651
	B0	-0.00041	-0.00040	-0.00037
	B0	0.00019	0.00030	0.00038
	B0	-0.00038	0.00002	0.00176
	C0	0.00378	0.00417	0.00621
	C0	-0.00041	-0.00040	-0.00039
	C0	0.00006	0.00009	0.00012
	C0	-0.00035	0.00006	0.00222

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI211X6H7R	A0	-0.00043	-0.00031	0.00024
	A0	0.00064	0.00065	0.00065
	A0	-0.00058	-0.00058	-0.00058
	A0	0.00527	0.00545	0.00602
	A1	-0.00047	-0.00028	0.00052
	A1	0.00040	0.00040	0.00042
	A1	-0.00058	-0.00058	-0.00057
	A1	0.00442	0.00460	0.00541
	B0	-0.00043	-0.00021	0.00109
	B0	0.00064	0.00065	0.00065
	B0	-0.00032	-0.00030	-0.00019
	B0	0.00419	0.00445	0.00548
	C0	-0.00043	-0.00010	0.00186
	C0	0.00064	0.00065	0.00065
	C0	-0.00010	-0.00009	-0.00006
	C0	0.00351	0.00381	0.00549

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7R	(A1 * B0 * C0 * !Y)	-0.00053	-0.00047	-0.00039
	(A1 * B0 * C0 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	0.00085	0.00088	0.00094
	(A1 * B0 * !C0 * Y)	-0.00053	-0.00043	-0.00006
	(A1 * B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * !C0 * Y)	0.00000	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	0.00079	0.00084	0.00085
	(A1 * !B0 * Y)	-0.00053	-0.00049	-0.00042
	(A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	0.00084	0.00085	0.00085
	(!A1 * B0 * !C0 * Y)	-0.00066	-0.00066	-0.00065
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * B0 * !C0 * Y)	0.00073	0.00074	0.00074
	(!A1 * !B0 * C0 * Y)	-0.00066	-0.00066	-0.00065
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * Y)	0.00004	0.00005	0.00005
	(!A1 * !B0 * C0 * Y)	0.00075	0.00076	0.00076
	(!A1 * !B0 * !C0 * Y)	-0.00066	-0.00066	-0.00065
	(!A1 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !C0 * Y)	0.00073	0.00074	0.00074

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7R	(A1 * B0 * C0 * !Y)	0.00055	0.00056	0.00056
	(A1 * B0 * C0 * !Y)	0.00005	0.00006	0.00006
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00085	-0.00084	-0.00084
	(A1 * B0 * !C0 * Y)	0.00053	0.00053	0.00053
	(A1 * B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00001	0.00000
	(A1 * B0 * !C0 * Y)	-0.00084	-0.00083	-0.00079
	(A1 * !B0 * Y)	0.00052	0.00053	0.00053
	(A1 * !B0 * Y)	0.00007	0.00007	0.00007
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * Y)	-0.00084	-0.00084	-0.00084
	(!A1 * B0 * !C0 * Y)	0.00066	0.00066	0.00067
	(!A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * B0 * !C0 * Y)	-0.00073	-0.00068	-0.00061
	(!A1 * !B0 * C0 * Y)	0.00066	0.00066	0.00066
	(!A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * C0 * Y)	-0.00074	-0.00070	-0.00064
	(!A1 * !B0 * !C0 * Y)	0.00065	0.00066	0.00066
	(!A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !C0 * Y)	-0.00074	-0.00070	-0.00064

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7R	(A0 * B0 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	0.00101	0.00101	0.00101
	(A0 * B0 * !C0 * Y)	-0.00061	-0.00056	-0.00049
	(A0 * B0 * !C0 * Y)	-0.00007	-0.00006	-0.00006
	(A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * !C0 * Y)	0.00073	0.00073	0.00074
	(A0 * !B0 * C0 * Y)	-0.00061	-0.00056	-0.00049
	(A0 * !B0 * C0 * Y)	-0.00007	-0.00007	-0.00006
	(A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * Y)	0.00073	0.00073	0.00074
	(A0 * !B0 * !C0 * Y)	-0.00062	-0.00057	-0.00049
	(A0 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * Y)	0.00073	0.00073	0.00074
	(!A0 * B0 * !C0 * Y)	-0.00074	-0.00074	-0.00073
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * B0 * !C0 * Y)	0.00062	0.00062	0.00063
	(!A0 * !B0 * C0 * Y)	-0.00074	-0.00073	-0.00073
	(!A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * C0 * Y)	0.00063	0.00064	0.00065
	(!A0 * !B0 * !C0 * Y)	-0.00074	-0.00073	-0.00073
	(!A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * !B0 * !C0 * Y)	0.00062	0.00063	0.00063

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7R	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00101	-0.00101	-0.00100
	(A0 * B0 * !C0 * Y)	0.00060	0.00061	0.00061
	(A0 * B0 * !C0 * Y)	0.00006	0.00007	0.00007
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !C0 * Y)	-0.00073	-0.00072	-0.00072
	(A0 * !B0 * C0 * Y)	0.00061	0.00061	0.00061
	(A0 * !B0 * C0 * Y)	0.00007	0.00007	0.00007
	(A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * C0 * Y)	-0.00073	-0.00073	-0.00073
	(A0 * !B0 * !C0 * Y)	0.00061	0.00061	0.00062
	(A0 * !B0 * !C0 * Y)	0.00006	0.00007	0.00007
	(A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * Y)	-0.00073	-0.00073	-0.00072
	(!A0 * B0 * !C0 * Y)	0.00074	0.00074	0.00074
	(!A0 * B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * B0 * !C0 * Y)	-0.00062	-0.00057	-0.00048
	(!A0 * !B0 * C0 * Y)	0.00073	0.00073	0.00074
	(!A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * C0 * Y)	-0.00063	-0.00059	-0.00052
	(!A0 * !B0 * !C0 * Y)	0.00073	0.00073	0.00074
	(!A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !B0 * !C0 * Y)	-0.00063	-0.00059	-0.00052

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7R	(A1 * !C0 * Y)	-0.00068	-0.00068	-0.00067
	(A1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !C0 * Y)	0.00003	0.00003	0.00004
	(A1 * !C0 * Y)	0.00074	0.00075	0.00075
	(A0 * !A1 * !C0 * Y)	-0.00068	-0.00068	-0.00067
	(A0 * !A1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !C0 * Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * !C0 * Y)	0.00074	0.00075	0.00075
	(!A0 * !A1 * C0 * Y)	-0.00069	-0.00069	-0.00068
	(!A0 * !A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * C0 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * C0 * Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * !C0 * Y)	-0.00069	-0.00069	-0.00068
	(!A0 * !A1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !C0 * Y)	0.00019	0.00020	0.00020

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7R	(A1 * !C0 * Y)	0.00068	0.00070	0.00074
	(A1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(A1 * !C0 * Y)	-0.00072	-0.00068	-0.00062
	(A0 * !A1 * !C0 * Y)	0.00068	0.00071	0.00075
	(A0 * !A1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * !C0 * Y)	-0.00072	-0.00068	-0.00061
	(!A0 * !A1 * C0 * Y)	0.00069	0.00069	0.00069
	(!A0 * !A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !C0 * Y)	0.00070	0.00071	0.00072
	(!A0 * !A1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !C0 * Y)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7R	(A1 * !B0 * Y)	-0.00093	-0.00092	-0.00091
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * Y)	0.00018	0.00019	0.00019
	(!A1 * !B0 * Y)	-0.00093	-0.00092	-0.00091
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B0 * Y)	-0.00092	-0.00092	-0.00091
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * Y)	0.00017	0.00018	0.00018

Passive power(pJ) for C0 falling (conditional):

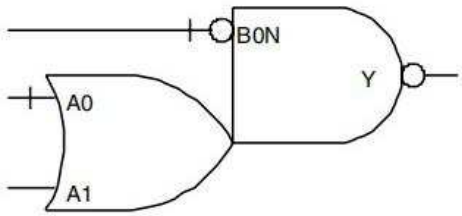
Cell Name	When	Power(pJ)		
		min	avg	max
OAI211X6H7R	(A1 * !B0 * Y)	0.00092	0.00093	0.00093
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00010	-0.00010	-0.00010
	(A1 * !B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * !B0 * Y)	0.00091	0.00092	0.00093
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * Y)	-0.00019	-0.00019	-0.00018
	(!A0 * !A1 * B0 * Y)	0.00091	0.00092	0.00093
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * Y)	-0.00018	-0.00018	-0.00017

OAI21BX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX0P5H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX0P5H7R	0.00065	0.00076	0.00081	0.02139

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX0P5H7R	0.00000	0.19563	0.30749

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX0P5H7R	A0->Y (FR)	0.03921	0.19122	0.64045
	A1->Y (FR)	0.03831	0.19325	0.65995
	B0N->Y (RR)	0.03234	0.11069	0.29239

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX0P5H7R	A0->Y (RF)	0.02832	0.13902	0.49628
	A1->Y (RF)	0.02726	0.13618	0.49423
	B0N->Y (FF)	0.04350	0.14581	0.39558

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX0P5H7R	A0	0.00074	0.00078	0.00097
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00007	0.00007	0.00007
	A0	-0.00004	-0.00000	0.00018
	A1	0.00068	0.00073	0.00100
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00007	0.00007	0.00007
	A1	0.00000	0.00006	0.00032
	B0N	0.00064	0.00076	0.00116
	B0N	-0.00002	-0.00002	-0.00002
	B0N	0.00000	0.00000	0.00000
	B0N	0.00098	0.00111	0.00150

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX0P5H7R	A0	0.00014	0.00017	0.00031
	A0	0.00009	0.00009	0.00009
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00091	0.00095	0.00110
	A1	0.00010	0.00014	0.00030
	A1	0.00004	0.00005	0.00005
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00079	0.00083	0.00099
	B0N	0.00095	0.00108	0.00150
	B0N	0.00007	0.00007	0.00007
	B0N	-0.00000	0.00000	0.00000
	B0N	0.00059	0.00072	0.00115

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7R	(A1 * B0N * Y)	-0.00008	-0.00007	-0.00007
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0N * Y)	0.00000	0.00000	0.00000
	(A1 * B0N * Y)	0.00025	0.00025	0.00025
	(A1 * !B0N * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00025	0.00025	0.00026
	(!A1 * B0N * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	0.00023	0.00023	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7R	(A1 * B0N * Y)	0.00008	0.00008	0.00008
	(A1 * B0N * Y)	0.00001	0.00001	0.00001
	(A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0N * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0N * !Y)	0.00008	0.00008	0.00008
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B0N * Y)	0.00009	0.00010	0.00011
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7R	(A0 * B0N * Y)	-0.00014	-0.00014	-0.00013
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0N * Y)	0.00000	0.00000	0.00000
	(A0 * B0N * Y)	0.00021	0.00021	0.00021
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00027	0.00027	0.00027
	(!A0 * B0N * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	0.00019	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7R	(A0 * B0N * Y)	0.00014	0.00014	0.00014
	(A0 * B0N * Y)	0.00001	0.00001	0.00001
	(A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0N * Y)	-0.00021	-0.00021	-0.00020
	(A0 * !B0N * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0N * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * B0N * Y)	0.00016	0.00016	0.00016
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	-0.00019	-0.00019	-0.00017

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7R	(!A0 * !A1 * Y)	0.00009	0.00020	0.00059
	(!A0 * !A1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	0.00076	0.00087	0.00127

Passive power(pJ) for B0N falling (conditional):

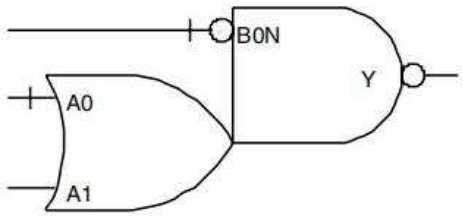
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P5H7R	(!A0 * !A1 * Y)	0.00066	0.00078	0.00120
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * Y)	-0.00002	0.00010	0.00052

OAI21BX0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX0P7H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX0P7H7R	0.00068	0.00081	0.00081	0.02424

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX0P7H7R	0.00000	0.20905	0.32474

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX0P7H7R	A0->Y (FR)	0.03666	0.18921	0.64148
	A1->Y (FR)	0.03563	0.19088	0.65962
	B0N->Y (RR)	0.03152	0.11045	0.29322

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX0P7H7R	A0->Y (RF)	0.02662	0.13703	0.49561
	A1->Y (RF)	0.02551	0.13402	0.49253
	B0N->Y (FF)	0.04246	0.14520	0.39561

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX0P7H7R	A0	0.00079	0.00084	0.00104
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00008	0.00008	0.00008
	A0	-0.00005	-0.00001	0.00019
	A1	0.00072	0.00077	0.00108
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00008	0.00008	0.00008
	A1	-0.00001	0.00005	0.00035
	B0N	0.00069	0.00082	0.00122
	B0N	-0.00003	-0.00003	-0.00003
	B0N	0.00000	0.00000	0.00000
	B0N	0.00101	0.00114	0.00152

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX0P7H7R	A0	0.00015	0.00018	0.00034
	A0	0.00010	0.00010	0.00010
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00098	0.00103	0.00120
	A1	0.00010	0.00015	0.00034
	A1	0.00005	0.00005	0.00005
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00085	0.00089	0.00108
	B0N	0.00097	0.00110	0.00152
	B0N	0.00008	0.00008	0.00008
	B0N	-0.00000	-0.00000	0.00000
	B0N	0.00064	0.00077	0.00120

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7R	(A1 * B0N * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0N * Y)	0.00000	0.00000	0.00000
	(A1 * B0N * Y)	0.00026	0.00026	0.00026
	(A1 * !B0N * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0N * !Y)	0.00026	0.00026	0.00027
	(!A1 * B0N * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00001	0.00001	0.00002
	(!A1 * B0N * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7R	(A1 * B0N * Y)	0.00009	0.00009	0.00009
	(A1 * B0N * Y)	0.00001	0.00001	0.00001
	(A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0N * Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0N * !Y)	0.00009	0.00009	0.00009
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B0N * Y)	0.00011	0.00011	0.00012
	(!A1 * B0N * Y)	0.00000	0.00000	0.00000
	(!A1 * B0N * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7R	(A0 * B0N * Y)	-0.00016	-0.00015	-0.00014
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0N * Y)	0.00000	0.00000	0.00001
	(A0 * B0N * Y)	0.00021	0.00022	0.00022
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00028	0.00028	0.00029
	(!A0 * B0N * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7R	(A0 * B0N * Y)	0.00015	0.00016	0.00016
	(A0 * B0N * Y)	0.00001	0.00001	0.00001
	(A0 * B0N * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0N * Y)	-0.00022	-0.00022	-0.00021
	(A0 * !B0N * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0N * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * B0N * Y)	0.00017	0.00018	0.00018
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7R	(!A0 * !A1 * Y)	0.00011	0.00022	0.00061
	(!A0 * !A1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	0.00079	0.00090	0.00129

Passive power(pJ) for B0N falling (conditional):

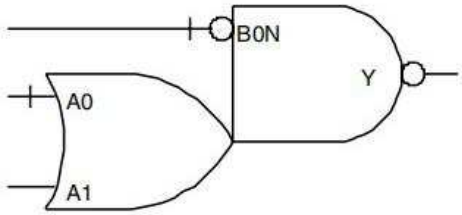
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX0P7H7R	(!A0 * !A1 * Y)	0.00066	0.00077	0.00120
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * Y)	-0.00003	0.00009	0.00051

OAI21BX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX1H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX1H7R	0.00074	0.00087	0.00081	0.02889

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX1H7R	0.00000	0.22846	0.34937

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX1H7R	A0->Y (FR)	0.03325	0.18650	0.64304
	A1->Y (FR)	0.03206	0.18762	0.66061
	B0N->Y (RR)	0.03046	0.11030	0.29496

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX1H7R	A0->Y (RF)	0.02491	0.13666	0.50105
	A1->Y (RF)	0.02358	0.13336	0.49839
	B0N->Y (FF)	0.04156	0.14655	0.40221

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX1H7R	A0	0.00087	0.00092	0.00117
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00009	0.00009	0.00009
	A0	-0.00007	-0.00002	0.00021
	A1	0.00076	0.00084	0.00120
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00009	0.00009	0.00009
	A1	-0.00003	0.00004	0.00040
	B0N	0.00077	0.00090	0.00130
	B0N	-0.00004	-0.00004	-0.00004
	B0N	0.00000	0.00001	0.00001
	B0N	0.00104	0.00117	0.00155

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX1H7R	A0	0.00016	0.00019	0.00039
	A0	0.00012	0.00012	0.00012
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00110	0.00114	0.00134
	A1	0.00011	0.00016	0.00040
	A1	0.00006	0.00006	0.00006
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00094	0.00098	0.00123
	B0N	0.00100	0.00113	0.00155
	B0N	0.00010	0.00010	0.00010
	B0N	-0.00001	-0.00001	-0.00000
	B0N	0.00072	0.00085	0.00130

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7R	(A1 * B0N * Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0N * Y)	0.00000	0.00001	0.00001
	(A1 * B0N * Y)	0.00027	0.00027	0.00027
	(A1 * !B0N * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0N * !Y)	0.00027	0.00028	0.00028
	(!A1 * B0N * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7R	(A1 * B0N * Y)	0.00011	0.00011	0.00011
	(A1 * B0N * Y)	0.00001	0.00001	0.00001
	(A1 * B0N * Y)	-0.00000	-0.00001	-0.00000
	(A1 * B0N * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0N * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0N * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B0N * Y)	0.00013	0.00013	0.00014
	(!A1 * B0N * Y)	0.00000	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7R	(A0 * B0N * Y)	-0.00018	-0.00017	-0.00015
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0N * Y)	0.00000	0.00000	0.00001
	(A0 * B0N * Y)	0.00023	0.00023	0.00024
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0N * !Y)	0.00031	0.00031	0.00031
	(!A0 * B0N * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * B0N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	0.00021	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7R	(A0 * B0N * Y)	0.00017	0.00017	0.00018
	(A0 * B0N * Y)	0.00001	0.00001	0.00002
	(A0 * B0N * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0N * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !B0N * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0N * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0N * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0N * !Y)	-0.00031	-0.00031	-0.00030
	(!A0 * B0N * Y)	0.00020	0.00020	0.00020
	(!A0 * B0N * Y)	0.00000	0.00000	0.00000
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	-0.00021	-0.00020	-0.00019

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7R	(!A0 * !A1 * Y)	0.00013	0.00024	0.00063
	(!A0 * !A1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * Y)	0.00082	0.00093	0.00131

Passive power(pJ) for B0N falling (conditional):

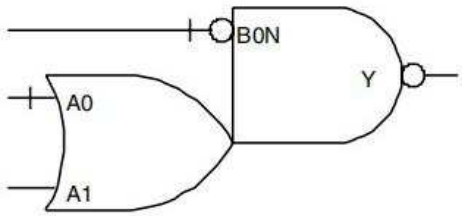
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1H7R	(!A0 * !A1 * Y)	0.00066	0.00078	0.00119
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * Y)	-0.00003	0.00009	0.00050

OAI21BX1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX1P4H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX1P4H7R	0.00079	0.00094	0.00081	0.03297

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX1P4H7R	0.00000	0.24704	0.37443

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX1P4H7R	A0->Y (FR)	0.03133	0.18511	0.64512
	A1->Y (FR)	0.02999	0.18587	0.66096
	B0N->Y (RR)	0.03014	0.11089	0.29698

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX1P4H7R	A0->Y (RF)	0.02365	0.13493	0.49993
	A1->Y (RF)	0.02214	0.13146	0.49660
	B0N->Y (FF)	0.04120	0.14679	0.40338

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX1P4H7R	A0	0.00096	0.00101	0.00129
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00011	0.00011	0.00011
	A0	-0.00007	-0.00002	0.00025
	A1	0.00082	0.00090	0.00132
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00011	0.00011	0.00011
	A1	-0.00004	0.00004	0.00044
	B0N	0.00085	0.00098	0.00138
	B0N	-0.00005	-0.00005	-0.00004
	B0N	0.00001	0.00001	0.00001
	B0N	0.00108	0.00121	0.00159

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX1P4H7R	A0	0.00017	0.00020	0.00043
	A0	0.00014	0.00014	0.00014
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00120	0.00124	0.00148
	A1	0.00012	0.00018	0.00046
	A1	0.00007	0.00007	0.00007
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00102	0.00108	0.00136
	B0N	0.00104	0.00118	0.00160
	B0N	0.00011	0.00012	0.00012
	B0N	-0.00001	-0.00001	-0.00001
	B0N	0.00081	0.00094	0.00136

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7R	(A1 * B0N * Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0N * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0N * Y)	0.00001	0.00001	0.00001
	(A1 * B0N * Y)	0.00028	0.00028	0.00028
	(A1 * !B0N * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0N * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0N * !Y)	0.00028	0.00028	0.00029
	(!A1 * B0N * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7R	(A1 * B0N * Y)	0.00012	0.00012	0.00012
	(A1 * B0N * Y)	0.00002	0.00002	0.00002
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0N * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0N * !Y)	0.00012	0.00013	0.00013
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0N * !Y)	-0.00028	-0.00028	-0.00028
	(!A1 * B0N * Y)	0.00014	0.00015	0.00016
	(!A1 * B0N * Y)	0.00000	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	-0.00026	-0.00024	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7R	(A0 * B0N * Y)	-0.00019	-0.00018	-0.00017
	(A0 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0N * Y)	0.00000	0.00001	0.00001
	(A0 * B0N * Y)	0.00024	0.00025	0.00025
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0N * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	0.00033	0.00033	0.00033
	(!A0 * B0N * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B0N * Y)	-0.00000	-0.00001	-0.00000
	(!A0 * B0N * Y)	0.00001	0.00001	0.00002
	(!A0 * B0N * Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7R	(A0 * B0N * Y)	0.00019	0.00019	0.00019
	(A0 * B0N * Y)	0.00001	0.00002	0.00002
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0N * Y)	-0.00025	-0.00024	-0.00024
	(A0 * !B0N * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0N * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0N * !Y)	-0.00033	-0.00033	-0.00032
	(!A0 * B0N * Y)	0.00021	0.00022	0.00022
	(!A0 * B0N * Y)	0.00000	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0N * Y)	-0.00023	-0.00021	-0.00020

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7R	(!A0 * !A1 * Y)	0.00016	0.00027	0.00065
	(!A0 * !A1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * Y)	0.00086	0.00096	0.00134

Passive power(pJ) for B0N falling (conditional):

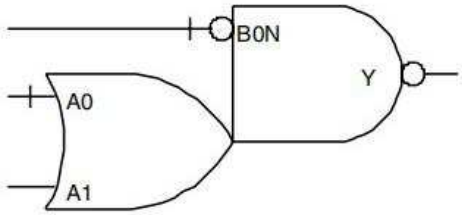
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX1P4H7R	(!A0 * !A1 * Y)	0.00067	0.00078	0.00119
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * Y)	-0.00003	0.00008	0.00049

OAI21BX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX2H7R	0.00090	0.00102	0.00084	0.03945

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX2H7R	0.00000	0.27549	0.41464

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX2H7R	A0->Y (FR)	0.02848	0.18461	0.65158
	A1->Y (FR)	0.02656	0.18468	0.66727
	B0N->Y (RR)	0.03019	0.11344	0.30508

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX2H7R	A0->Y (RF)	0.02150	0.13203	0.49704
	A1->Y (RF)	0.01964	0.12802	0.49273
	B0N->Y (FF)	0.04112	0.14802	0.40679

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX2H7R	A0	0.00102	0.00109	0.00142
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00013	0.00013	0.00013
	A0	-0.00013	-0.00008	0.00025
	A1	0.00084	0.00093	0.00144
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00013	0.00013	0.00013
	A1	-0.00010	-0.00001	0.00049
	B0N	0.00095	0.00109	0.00147
	B0N	-0.00007	-0.00007	-0.00006
	B0N	0.00001	0.00002	0.00002
	B0N	0.00113	0.00127	0.00166

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX2H7R	A0	0.00019	0.00023	0.00052
	A0	0.00017	0.00017	0.00017
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00131	0.00139	0.00169
	A1	0.00014	0.00022	0.00057
	A1	0.00009	0.00009	0.00009
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00109	0.00118	0.00155
	B0N	0.00111	0.00125	0.00168
	B0N	0.00014	0.00015	0.00017
	B0N	-0.00002	-0.00002	-0.00001
	B0N	0.00090	0.00103	0.00144

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7R	(A1 * B0N * Y)	-0.00014	-0.00014	-0.00012
	(A1 * B0N * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0N * Y)	0.00001	0.00001	0.00001
	(A1 * B0N * Y)	0.00032	0.00032	0.00032
	(A1 * !B0N * !Y)	-0.00015	-0.00013	-0.00012
	(A1 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0N * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0N * !Y)	0.00032	0.00032	0.00032
	(!A1 * B0N * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	0.00001	0.00002	0.00002
	(!A1 * B0N * Y)	0.00029	0.00030	0.00030

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7R	(A1 * B0N * Y)	0.00014	0.00014	0.00014
	(A1 * B0N * Y)	0.00002	0.00002	0.00002
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0N * Y)	-0.00032	-0.00032	-0.00031
	(A1 * !B0N * !Y)	0.00014	0.00015	0.00015
	(A1 * !B0N * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0N * !Y)	-0.00032	-0.00032	-0.00031
	(!A1 * B0N * Y)	0.00017	0.00018	0.00019
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0N * Y)	-0.00029	-0.00028	-0.00026

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7R	(A0 * B0N * Y)	-0.00021	-0.00019	-0.00018
	(A0 * B0N * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0N * Y)	0.00001	0.00001	0.00001
	(A0 * B0N * Y)	0.00027	0.00028	0.00028
	(A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0N * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	0.00036	0.00036	0.00036
	(!A0 * B0N * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0N * Y)	0.00001	0.00002	0.00002
	(!A0 * B0N * Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7R	(A0 * B0N * Y)	0.00020	0.00020	0.00021
	(A0 * B0N * Y)	0.00002	0.00002	0.00002
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0N * Y)	-0.00028	-0.00027	-0.00027
	(A0 * !B0N * !Y)	0.00002	0.00003	0.00003
	(A0 * !B0N * !Y)	0.00003	0.00004	0.00004
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0N * !Y)	-0.00036	-0.00036	-0.00035
	(!A0 * B0N * Y)	0.00023	0.00024	0.00024
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0N * Y)	-0.00025	-0.00024	-0.00022

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7R	(!A0 * !A1 * Y)	0.00022	0.00032	0.00069
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * Y)	-0.00004	-0.00005	-0.00004
	(!A0 * !A1 * Y)	0.00093	0.00103	0.00140

Passive power(pJ) for B0N falling (conditional):

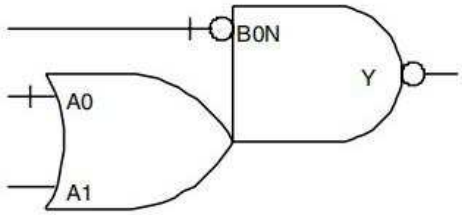
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX2H7R	(!A0 * !A1 * Y)	0.00068	0.00079	0.00119
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * Y)	-0.00004	0.00007	0.00046

OAI21BX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX3H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX3H7R	0.00172	0.00152	0.00090	0.06160

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX3H7R	0.00000	0.40963	0.62176

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX3H7R	A0->Y (FR)	0.02925	0.18531	0.65265
	A1->Y (FR)	0.02493	0.18310	0.66627
	B0N->Y (RR)	0.02825	0.11264	0.30700

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX3H7R	A0->Y (RF)	0.02262	0.13399	0.50319
	A1->Y (RF)	0.01960	0.12950	0.50051
	B0N->Y (FF)	0.03868	0.14704	0.40797

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX3H7R	A0	0.00187	0.00196	0.00247
	A0	-0.00026	-0.00026	-0.00025
	A0	0.00020	0.00020	0.00020
	A0	-0.00019	-0.00008	0.00041
	A1	0.00134	0.00149	0.00233
	A1	-0.00013	-0.00013	-0.00012
	A1	0.00020	0.00020	0.00020
	A1	-0.00015	0.00000	0.00082
	B0N	0.00155	0.00174	0.00226
	B0N	-0.00010	-0.00010	-0.00009
	B0N	0.00002	0.00003	0.00003
	B0N	0.00147	0.00167	0.00219

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX3H7R	A0	0.00028	0.00035	0.00078
	A0	0.00025	0.00026	0.00026
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00228	0.00239	0.00283
	A1	0.00029	0.00041	0.00100
	A1	0.00013	0.00013	0.00014
	A1	-0.00020	-0.00020	-0.00020
	A1	0.00181	0.00195	0.00255
	B0N	0.00149	0.00168	0.00224
	B0N	0.00022	0.00023	0.00023
	B0N	-0.00003	-0.00003	-0.00002
	B0N	0.00148	0.00166	0.00218

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7R	(A1 * B0N * Y)	-0.00028	-0.00026	-0.00022
	(A1 * B0N * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0N * Y)	0.00001	0.00001	0.00001
	(A1 * B0N * Y)	0.00056	0.00057	0.00057
	(A1 * !B0N * !Y)	-0.00026	-0.00023	-0.00019
	(A1 * !B0N * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0N * !Y)	0.00058	0.00059	0.00060
	(!A1 * B0N * Y)	-0.00033	-0.00032	-0.00032
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	0.00002	0.00003	0.00004
	(!A1 * B0N * Y)	0.00051	0.00052	0.00052

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7R	(A1 * B0N * Y)	0.00027	0.00027	0.00028
	(A1 * B0N * Y)	0.00003	0.00003	0.00003
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0N * Y)	-0.00057	-0.00056	-0.00056
	(A1 * !B0N * !Y)	0.00026	0.00026	0.00027
	(A1 * !B0N * !Y)	0.00002	0.00003	0.00003
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	-0.00059	-0.00058	-0.00058
	(!A1 * B0N * Y)	0.00033	0.00034	0.00037
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00004	-0.00003	-0.00002
	(!A1 * B0N * Y)	-0.00051	-0.00048	-0.00043

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7R	(A0 * B0N * Y)	-0.00032	-0.00030	-0.00026
	(A0 * B0N * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0N * Y)	0.00001	0.00001	0.00001
	(A0 * B0N * Y)	0.00039	0.00040	0.00040
	(A0 * !B0N * !Y)	-0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0N * !Y)	0.00056	0.00056	0.00056
	(!A0 * B0N * Y)	-0.00038	-0.00038	-0.00037
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	0.00002	0.00002	0.00002
	(!A0 * B0N * Y)	0.00035	0.00036	0.00036

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7R	(A0 * B0N * Y)	0.00032	0.00032	0.00032
	(A0 * B0N * Y)	0.00003	0.00003	0.00003
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0N * Y)	-0.00040	-0.00039	-0.00039
	(A0 * !B0N * !Y)	-0.00000	0.00000	0.00001
	(A0 * !B0N * !Y)	0.00005	0.00005	0.00005
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0N * !Y)	-0.00056	-0.00056	-0.00055
	(!A0 * B0N * Y)	0.00038	0.00038	0.00039
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0N * Y)	-0.00035	-0.00033	-0.00031

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7R	(!A0 * !A1 * Y)	0.00035	0.00048	0.00096
	(!A0 * !A1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * Y)	0.00118	0.00131	0.00178

Passive power(pJ) for B0N falling (conditional):

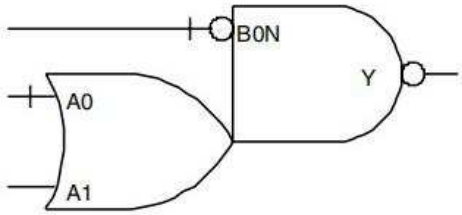
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX3H7R	(!A0 * !A1 * Y)	0.00080	0.00094	0.00144
	(!A0 * !A1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * Y)	-0.00003	0.00011	0.00061

OAI21BX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX4H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX4H7R	0.00196	0.00180	0.00095	0.07897

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX4H7R	0.00000	0.50681	0.75838

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX4H7R	A0->Y (FR)	0.02662	0.18338	0.65507
	A1->Y (FR)	0.02260	0.18114	0.66636
	B0N->Y (RR)	0.02638	0.11025	0.30342

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX4H7R	A0->Y (RF)	0.02082	0.13097	0.49804
	A1->Y (RF)	0.01786	0.12669	0.49684
	B0N->Y (FF)	0.03686	0.14493	0.40457

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX4H7R	A0	0.00221	0.00232	0.00297
	A0	-0.00034	-0.00034	-0.00033
	A0	0.00026	0.00026	0.00026
	A0	-0.00027	-0.00014	0.00050
	A1	0.00160	0.00178	0.00285
	A1	-0.00018	-0.00017	-0.00016
	A1	0.00026	0.00026	0.00026
	A1	-0.00021	-0.00001	0.00104
	B0N	0.00188	0.00210	0.00273
	B0N	-0.00014	-0.00014	-0.00012
	B0N	0.00003	0.00004	0.00006
	B0N	0.00162	0.00185	0.00248

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX4H7R	A0	0.00033	0.00042	0.00099
	A0	0.00033	0.00034	0.00034
	A0	-0.00026	-0.00026	-0.00026
	A0	0.00270	0.00287	0.00345
	A1	0.00030	0.00046	0.00124
	A1	0.00016	0.00018	0.00020
	A1	-0.00026	-0.00026	-0.00026
	A1	0.00211	0.00230	0.00311
	B0N	0.00159	0.00181	0.00252
	B0N	0.00027	0.00030	0.00031
	B0N	-0.00004	-0.00004	-0.00003
	B0N	0.00180	0.00200	0.00262

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7R	(A1 * B0N * Y)	-0.00035	-0.00032	-0.00028
	(A1 * B0N * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0N * Y)	0.00001	0.00001	0.00003
	(A1 * B0N * Y)	0.00061	0.00062	0.00063
	(A1 * !B0N * !Y)	-0.00031	-0.00028	-0.00024
	(A1 * !B0N * !Y)	-0.00005	-0.00003	-0.00003
	(A1 * !B0N * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0N * !Y)	0.00066	0.00067	0.00069
	(!A1 * B0N * Y)	-0.00041	-0.00041	-0.00041
	(!A1 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0N * Y)	0.00003	0.00003	0.00003
	(!A1 * B0N * Y)	0.00057	0.00057	0.00057

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7R	(A1 * B0N * Y)	0.00034	0.00034	0.00035
	(A1 * B0N * Y)	0.00004	0.00004	0.00004
	(A1 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0N * Y)	-0.00062	-0.00062	-0.00061
	(A1 * !B0N * !Y)	0.00031	0.00032	0.00032
	(A1 * !B0N * !Y)	0.00003	0.00003	0.00005
	(A1 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0N * !Y)	-0.00066	-0.00065	-0.00065
	(!A1 * B0N * Y)	0.00041	0.00042	0.00045
	(!A1 * B0N * Y)	0.00001	0.00001	0.00001
	(!A1 * B0N * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0N * Y)	-0.00056	-0.00052	-0.00047

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7R	(A0 * B0N * Y)	-0.00040	-0.00037	-0.00032
	(A0 * B0N * Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0N * Y)	0.00001	0.00001	0.00001
	(A0 * B0N * Y)	0.00045	0.00045	0.00046
	(A0 * !B0N * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * !B0N * !Y)	0.00001	0.00001	0.00002
	(A0 * !B0N * !Y)	0.00064	0.00064	0.00064
	(!A0 * B0N * Y)	-0.00047	-0.00047	-0.00046
	(!A0 * B0N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0N * Y)	0.00003	0.00003	0.00003
	(!A0 * B0N * Y)	0.00040	0.00041	0.00041

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7R	(A0 * B0N * Y)	0.00039	0.00040	0.00040
	(A0 * B0N * Y)	0.00004	0.00004	0.00004
	(A0 * B0N * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0N * Y)	-0.00045	-0.00045	-0.00045
	(A0 * !B0N * !Y)	-0.00000	0.00000	0.00000
	(A0 * !B0N * !Y)	0.00007	0.00008	0.00009
	(A0 * !B0N * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0N * !Y)	-0.00064	-0.00064	-0.00063
	(!A0 * B0N * Y)	0.00047	0.00047	0.00048
	(!A0 * B0N * Y)	0.00001	0.00001	0.00001
	(!A0 * B0N * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0N * Y)	-0.00040	-0.00038	-0.00034

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7R	(!A0 * !A1 * Y)	0.00045	0.00060	0.00114
	(!A0 * !A1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * Y)	0.00132	0.00147	0.00202

Passive power(pJ) for B0N falling (conditional):

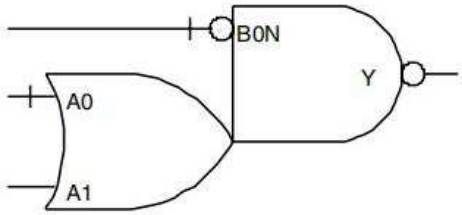
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX4H7R	(!A0 * !A1 * Y)	0.00081	0.00097	0.00154
	(!A0 * !A1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * Y)	-0.00006	0.00009	0.00066

OAI21BX6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21B cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0N	Y
0	0	x	1
x	1	0	0
x	1	1	1
1	x	0	0
1	x	1	1

Footprint

Cell Name	Area
OAI21BX6H7R	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0N	Y
OAI21BX6H7R	0.00265	0.00280	0.00109	0.11723

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21BX6H7R	0.00000	0.71456	1.06728

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX6H7R	A0->Y (FR)	0.02527	0.18199	0.65306
	A1->Y (FR)	0.02187	0.18042	0.66731
	B0N->Y (RR)	0.02975	0.11702	0.31560

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21BX6H7R	A0->Y (RF)	0.02055	0.13069	0.49705
	A1->Y (RF)	0.01751	0.12554	0.49299
	B0N->Y (FF)	0.04174	0.15391	0.42116

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX6H7R	A0	0.00330	0.00347	0.00447
	A0	-0.00051	-0.00051	-0.00049
	A0	0.00039	0.00039	0.00039
	A0	-0.00034	-0.00017	0.00081
	A1	0.00235	0.00268	0.00431
	A1	-0.00026	-0.00026	-0.00026
	A1	0.00038	0.00039	0.00039
	A1	-0.00035	-0.00005	0.00154
	B0N	0.00309	0.00339	0.00418
	B0N	-0.00023	-0.00022	-0.00021
	B0N	0.00004	0.00006	0.00008
	B0N	0.00243	0.00272	0.00351

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21BX6H7R	A0	0.00053	0.00067	0.00156
	A0	0.00049	0.00051	0.00051
	A0	-0.00039	-0.00039	-0.00039
	A0	0.00402	0.00428	0.00518
	A1	0.00046	0.00070	0.00192
	A1	0.00026	0.00026	0.00028
	A1	-0.00039	-0.00039	-0.00038
	A1	0.00321	0.00352	0.00476
	B0N	0.00233	0.00261	0.00355
	B0N	0.00046	0.00046	0.00047
	B0N	-0.00007	-0.00006	-0.00004
	B0N	0.00292	0.00317	0.00392

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7R	(A1 * B0N * Y)	-0.00051	-0.00047	-0.00040
	(A1 * B0N * Y)	-0.00007	-0.00007	-0.00006
	(A1 * B0N * Y)	0.00002	0.00002	0.00002
	(A1 * B0N * Y)	0.00084	0.00084	0.00085
	(A1 * !B0N * !Y)	-0.00051	-0.00046	-0.00036
	(A1 * !B0N * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * !B0N * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0N * !Y)	0.00085	0.00087	0.00091
	(!A1 * B0N * Y)	-0.00064	-0.00063	-0.00062
	(!A1 * B0N * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0N * Y)	0.00004	0.00004	0.00004
	(!A1 * B0N * Y)	0.00077	0.00078	0.00078

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7R	(A1 * B0N * Y)	0.00050	0.00051	0.00051
	(A1 * B0N * Y)	0.00007	0.00007	0.00007
	(A1 * B0N * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0N * Y)	-0.00084	-0.00084	-0.00084
	(A1 * !B0N * !Y)	0.00053	0.00053	0.00054
	(A1 * !B0N * !Y)	0.00005	0.00006	0.00006
	(A1 * !B0N * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0N * !Y)	-0.00085	-0.00085	-0.00084
	(!A1 * B0N * Y)	0.00063	0.00065	0.00067
	(!A1 * B0N * Y)	0.00002	0.00002	0.00002
	(!A1 * B0N * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * B0N * Y)	-0.00076	-0.00072	-0.00066

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7R	(A0 * B0N * Y)	-0.00063	-0.00058	-0.00051
	(A0 * B0N * Y)	-0.00007	-0.00006	-0.00006
	(A0 * B0N * Y)	0.00001	0.00002	0.00002
	(A0 * B0N * Y)	0.00074	0.00075	0.00076
	(A0 * !B0N * !Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0N * !Y)	-0.00010	-0.00010	-0.00008
	(A0 * !B0N * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0N * !Y)	0.00103	0.00104	0.00104
	(!A0 * B0N * Y)	-0.00075	-0.00074	-0.00074
	(!A0 * B0N * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0N * Y)	0.00004	0.00005	0.00005
	(!A0 * B0N * Y)	0.00067	0.00068	0.00068

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7R	(A0 * B0N * Y)	0.00063	0.00063	0.00063
	(A0 * B0N * Y)	0.00006	0.00006	0.00007
	(A0 * B0N * Y)	-0.00002	-0.00002	-0.00000
	(A0 * B0N * Y)	-0.00075	-0.00074	-0.00074
	(A0 * !B0N * !Y)	0.00002	0.00002	0.00003
	(A0 * !B0N * !Y)	0.00009	0.00011	0.00011
	(A0 * !B0N * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0N * !Y)	-0.00104	-0.00103	-0.00102
	(!A0 * B0N * Y)	0.00075	0.00076	0.00078
	(!A0 * B0N * Y)	0.00002	0.00002	0.00002
	(!A0 * B0N * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * B0N * Y)	-0.00067	-0.00063	-0.00056

Passive power(pJ) for B0N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7R	(!A0 * !A1 * Y)	0.00080	0.00095	0.00154
	(!A0 * !A1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * Y)	0.00185	0.00200	0.00259

Passive power(pJ) for B0N falling (conditional):

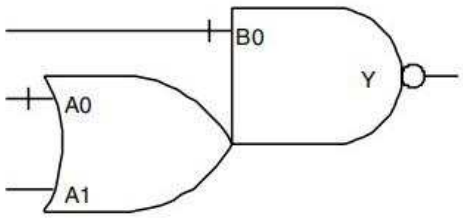
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21BX6H7R	(!A0 * !A1 * Y)	0.00105	0.00121	0.00181
	(!A0 * !A1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * Y)	-0.00001	0.00015	0.00075

OAI21X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X0P5H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X0P5H7R	0.00067	0.00071	0.00075	0.02145

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X0P5H7R	0.00000	0.10348	0.16732

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X0P5H7R	A0->Y (FR)	0.03850	0.19064	0.64115
	A1->Y (FR)	0.03654	0.19165	0.65977
	B0->Y (FR)	0.01723	0.11684	0.46391

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X0P5H7R	A0->Y (RF)	0.02673	0.13770	0.49631
	A1->Y (RF)	0.02509	0.13413	0.49373
	B0->Y (RF)	0.02280	0.13235	0.50531

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X0P5H7R	A0	0.00090	0.00095	0.00113
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00007	0.00007	0.00007
	A0	-0.00006	-0.00003	0.00015
	A1	0.00079	0.00085	0.00113
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00007	0.00007	0.00007
	A1	-0.00000	0.00005	0.00032
	B0	0.00067	0.00074	0.00114
	B0	-0.00005	-0.00004	-0.00004
	B0	0.00001	0.00002	0.00002
	B0	-0.00009	-0.00001	0.00041

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X0P5H7R	A0	-0.00007	-0.00004	0.00010
	A0	0.00009	0.00009	0.00009
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00091	0.00095	0.00110
	A1	-0.00008	-0.00004	0.00013
	A1	0.00004	0.00005	0.00005
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00075	0.00079	0.00096
	B0	-0.00008	-0.00001	0.00037
	B0	0.00009	0.00009	0.00009
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00063	0.00071	0.00105

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7R	(A1 * B0 * !Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00026	0.00027	0.00027
	(A1 * !B0 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00024	0.00024	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7R	(A1 * B0 * !Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * Y)	0.00009	0.00010	0.00011
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7R	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * Y)	-0.00012	-0.00012	-0.00011
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7R	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00025	-0.00024	-0.00024
	(A0 * !B0 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * Y)	0.00014	0.00014	0.00015
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7R	(!A0 * !A1 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

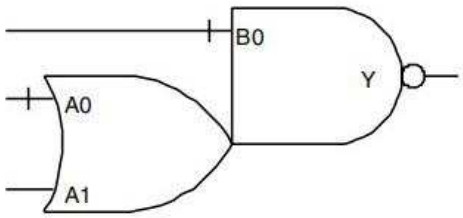
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P5H7R	(!A0 * !A1 * Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * Y)	-0.00008	-0.00008	-0.00008

OAI21X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X0P7H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X0P7H7R	0.00071	0.00077	0.00081	0.02429

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X0P7H7R	0.00000	0.11690	0.18457

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X0P7H7R	A0->Y (FR)	0.03621	0.18885	0.64164
	A1->Y (FR)	0.03416	0.18956	0.65977
	B0->Y (FR)	0.01633	0.11583	0.46561

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X0P7H7R	A0->Y (RF)	0.02514	0.13583	0.49483
	A1->Y (RF)	0.02346	0.13218	0.49144
	B0->Y (RF)	0.02159	0.13078	0.50352

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X0P7H7R	A0	0.00097	0.00103	0.00123
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00008	0.00008	0.00008
	A0	-0.00007	-0.00003	0.00017
	A1	0.00086	0.00092	0.00123
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00008	0.00008	0.00008
	A1	-0.00002	0.00004	0.00035
	B0	0.00073	0.00081	0.00126
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00001	0.00002	0.00002
	B0	-0.00010	-0.00000	0.00047

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X0P7H7R	A0	-0.00007	-0.00005	0.00012
	A0	0.00010	0.00010	0.00010
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00098	0.00103	0.00120
	A1	-0.00009	-0.00005	0.00015
	A1	0.00005	0.00005	0.00005
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00081	0.00086	0.00106
	B0	-0.00009	-0.00002	0.00042
	B0	0.00010	0.00010	0.00010
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00067	0.00078	0.00116

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7R	(A1 * B0 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * Y)	-0.00011	-0.00011	-0.00010
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7R	(A1 * B0 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * Y)	0.00011	0.00011	0.00012
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00025	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7R	(A0 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * Y)	-0.00013	-0.00013	-0.00012
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	0.00017	0.00017	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7R	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !B0 * Y)	0.00015	0.00015	0.00016
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7R	(!A0 * !A1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

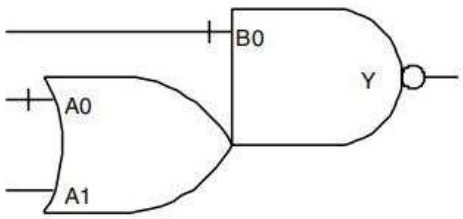
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X0P7H7R	(!A0 * !A1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * Y)	-0.00007	-0.00007	-0.00007

OAI21X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X1H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X1H7R	0.00074	0.00082	0.00086	0.02894

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X1H7R	0.00000	0.13631	0.20920

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X1H7R	A0->Y (FR)	0.03227	0.18549	0.64282
	A1->Y (FR)	0.03000	0.18556	0.65959
	B0->Y (FR)	0.01458	0.11370	0.46569

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X1H7R	A0->Y (RF)	0.02301	0.13487	0.50061
	A1->Y (RF)	0.02109	0.13087	0.49715
	B0->Y (RF)	0.01971	0.13016	0.50692

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X1H7R	A0	0.00105	0.00111	0.00135
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00009	0.00009	0.00009
	A0	-0.00007	-0.00003	0.00021
	A1	0.00090	0.00097	0.00135
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00009	0.00009	0.00009
	A1	-0.00004	0.00003	0.00040
	B0	0.00080	0.00089	0.00143
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00002	0.00002	0.00003
	B0	-0.00012	-0.00001	0.00056

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X1H7R	A0	-0.00009	-0.00006	0.00015
	A0	0.00012	0.00012	0.00012
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00104	0.00109	0.00130
	A1	-0.00010	-0.00005	0.00020
	A1	0.00006	0.00006	0.00006
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00087	0.00092	0.00118
	B0	-0.00011	-0.00002	0.00051
	B0	0.00012	0.00012	0.00012
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00076	0.00086	0.00132

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7R	(A1 * B0 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * Y)	-0.00012	-0.00013	-0.00012
	(!A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7R	(A1 * B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * Y)	0.00013	0.00013	0.00014
	(!A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7R	(A0 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !Y)	0.00028	0.00028	0.00028
	(A0 * !B0 * Y)	-0.00015	-0.00014	-0.00012
	(A0 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * Y)	0.00000	0.00001	0.00000
	(A0 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7R	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * !B0 * Y)	0.00014	0.00014	0.00015
	(A0 * !B0 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * Y)	0.00017	0.00017	0.00018
	(!A0 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7R	(!A0 * !A1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

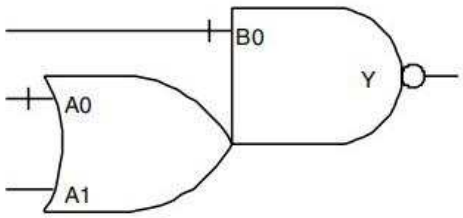
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1H7R	(!A0 * !A1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * Y)	-0.00008	-0.00008	-0.00007

OAI21X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X1P4H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X1P4H7R	0.00080	0.00090	0.00092	0.03303

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X1P4H7R	0.00000	0.15489	0.23426

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X1P4H7R	A0->Y (FR)	0.03043	0.18408	0.64505
	A1->Y (FR)	0.02802	0.18377	0.66086
	B0->Y (FR)	0.01367	0.11264	0.46538

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X1P4H7R	A0->Y (RF)	0.02167	0.13308	0.49859
	A1->Y (RF)	0.01969	0.12884	0.49419
	B0->Y (RF)	0.01845	0.12845	0.50655

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X1P4H7R	A0	0.00116	0.00121	0.00149
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00011	0.00011	0.00011
	A0	-0.00009	-0.00004	0.00023
	A1	0.00096	0.00105	0.00148
	A1	-0.00007	-0.00007	-0.00006
	A1	0.00011	0.00011	0.00011
	A1	-0.00006	0.00002	0.00044
	B0	0.00086	0.00097	0.00159
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00002	0.00003	0.00004
	B0	-0.00013	-0.00001	0.00064

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X1P4H7R	A0	-0.00010	-0.00006	0.00017
	A0	0.00014	0.00014	0.00014
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00113	0.00119	0.00143
	A1	-0.00012	-0.00006	0.00024
	A1	0.00007	0.00007	0.00008
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00091	0.00101	0.00131
	B0	-0.00012	-0.00002	0.00059
	B0	0.00014	0.00014	0.00014
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00081	0.00093	0.00147

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7R	(A1 * B0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7R	(A1 * B0 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00028	-0.00027	-0.00027
	(A1 * !B0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * Y)	0.00014	0.00015	0.00016
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7R	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	0.00020	0.00020	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7R	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * Y)	0.00016	0.00016	0.00016
	(A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * Y)	0.00019	0.00019	0.00020
	(!A0 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7R	(!A0 * !A1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

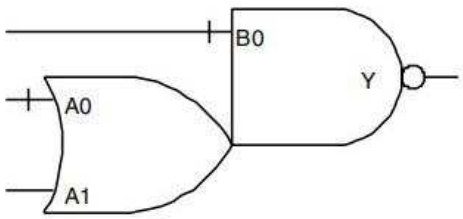
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X1P4H7R	(!A0 * !A1 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	-0.00007	-0.00007	-0.00007

OAI21X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X2H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X2H7R	0.00089	0.00101	0.00102	0.03882

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X2H7R	0.00000	0.18334	0.27447

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X2H7R	A0->Y (FR)	0.02851	0.18263	0.64611
	A1->Y (FR)	0.02617	0.18214	0.66049
	B0->Y (FR)	0.01287	0.11183	0.46717

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X2H7R	A0->Y (RF)	0.02001	0.12945	0.49062
	A1->Y (RF)	0.01809	0.12515	0.48686
	B0->Y (RF)	0.01715	0.12521	0.49969

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X2H7R	A0	0.00130	0.00137	0.00170
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00013	0.00013	0.00013
	A0	-0.00011	-0.00005	0.00027
	A1	0.00108	0.00118	0.00169
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00013	0.00013	0.00013
	A1	-0.00008	0.00001	0.00051
	B0	0.00097	0.00112	0.00185
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00002	0.00003	0.00009
	B0	-0.00014	0.00000	0.00078

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X2H7R	A0	-0.00012	-0.00008	0.00021
	A0	0.00017	0.00017	0.00017
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00125	0.00135	0.00164
	A1	-0.00014	-0.00007	0.00030
	A1	0.00009	0.00009	0.00009
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00107	0.00114	0.00151
	B0	-0.00014	-0.00002	0.00071
	B0	0.00017	0.00017	0.00017
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00090	0.00106	0.00170

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7R	(A1 * B0 * !Y)	-0.00015	-0.00013	-0.00012
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00030	0.00030	0.00031
	(A1 * !B0 * Y)	-0.00014	-0.00014	-0.00012
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00027	0.00027	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7R	(A1 * B0 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00030	-0.00030	-0.00029
	(!A1 * !B0 * Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * Y)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7R	(A0 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	0.00034	0.00034	0.00034
	(A0 * !B0 * Y)	-0.00018	-0.00017	-0.00015
	(A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * Y)	0.00025	0.00026	0.00026
	(!A0 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * Y)	0.00001	0.00002	0.00001
	(!A0 * !B0 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7R	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	-0.00034	-0.00034	-0.00033
	(A0 * !B0 * Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * Y)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0 * Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00001	-0.00002	-0.00001
	(!A0 * !B0 * Y)	-0.00023	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7R	(!A0 * !A1 * Y)	-0.00030	-0.00029	-0.00029
	(!A0 * !A1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * Y)	0.00006	0.00006	0.00007

Passive power(pJ) for B0 falling (conditional):

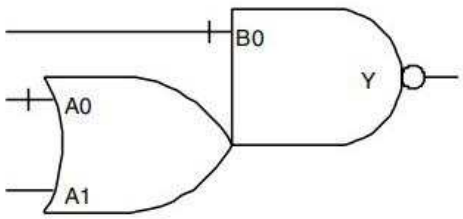
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X2H7R	(!A0 * !A1 * Y)	0.00029	0.00030	0.00030
	(!A0 * !A1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * Y)	-0.00006	-0.00006	-0.00006

OAI21X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X3H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X3H7R	0.00151	0.00159	0.00159	0.06048

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X3H7R	0.00000	0.28756	0.43971

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X3H7R	A0->Y (FR)	0.02894	0.18314	0.64553
	A1->Y (FR)	0.02515	0.18110	0.65997
	B0->Y (FR)	0.01190	0.11014	0.46518

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X3H7R	A0->Y (RF)	0.02050	0.13124	0.49659
	A1->Y (RF)	0.01791	0.12595	0.49162
	B0->Y (RF)	0.01637	0.12595	0.50338

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X3H7R	A0	0.00235	0.00244	0.00293
	A0	-0.00026	-0.00025	-0.00025
	A0	0.00020	0.00020	0.00020
	A0	-0.00008	0.00000	0.00049
	A1	0.00177	0.00194	0.00278
	A1	-0.00013	-0.00013	-0.00010
	A1	0.00020	0.00020	0.00020
	A1	-0.00016	0.00000	0.00081
	B0	0.00173	0.00194	0.00314
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00002	0.00005	0.00007
	B0	-0.00032	-0.00007	0.00123

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X3H7R	A0	-0.00021	-0.00014	0.00031
	A0	0.00025	0.00025	0.00026
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00217	0.00229	0.00274
	A1	-0.00020	-0.00008	0.00051
	A1	0.00013	0.00013	0.00014
	A1	-0.00020	-0.00020	-0.00020
	A1	0.00181	0.00193	0.00253
	B0	-0.00022	-0.00002	0.00120
	B0	0.00025	0.00025	0.00026
	B0	-0.00005	-0.00005	-0.00002
	B0	0.00159	0.00180	0.00284

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7R	(A1 * B0 * !Y)	-0.00027	-0.00024	-0.00019
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00050	0.00051	0.00053
	(A1 * !B0 * Y)	-0.00027	-0.00024	-0.00021
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00049	0.00050	0.00051
	(!A1 * !B0 * Y)	-0.00034	-0.00034	-0.00033
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	0.00044	0.00044	0.00045

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7R	(A1 * B0 * !Y)	0.00027	0.00028	0.00028
	(A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00050	-0.00050	-0.00049
	(A1 * !B0 * Y)	0.00026	0.00027	0.00027
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00049	-0.00049	-0.00049
	(!A1 * !B0 * Y)	0.00034	0.00034	0.00036
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	-0.00044	-0.00041	-0.00037

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7R	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	0.00061	0.00061	0.00061
	(A0 * !B0 * Y)	-0.00033	-0.00031	-0.00026
	(A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * Y)	0.00043	0.00043	0.00044
	(!A0 * !B0 * Y)	-0.00040	-0.00040	-0.00039
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	0.00037	0.00038	0.00038

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7R	(A0 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	-0.00061	-0.00061	-0.00060
	(A0 * !B0 * Y)	0.00033	0.00033	0.00033
	(A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * Y)	-0.00043	-0.00043	-0.00042
	(!A0 * !B0 * Y)	0.00040	0.00040	0.00042
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	-0.00037	-0.00034	-0.00031

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7R	(!A0 * !A1 * Y)	-0.00047	-0.00046	-0.00046
	(!A0 * !A1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for B0 falling (conditional):

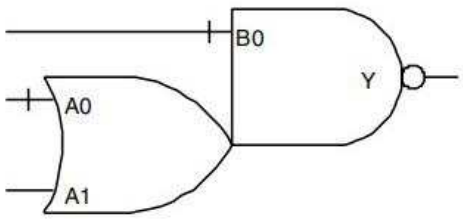
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X3H7R	(!A0 * !A1 * Y)	0.00046	0.00047	0.00047
	(!A0 * !A1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * Y)	-0.00016	-0.00016	-0.00016

OAI21X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X4H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X4H7R	0.00175	0.00186	0.00185	0.07740

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X4H7R	0.00000	0.36668	0.54893

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X4H7R	A0->Y (FR)	0.02616	0.18075	0.64664
	A1->Y (FR)	0.02277	0.17900	0.66085
	B0->Y (FR)	0.01095	0.10901	0.46608

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X4H7R	A0->Y (RF)	0.01845	0.12778	0.49077
	A1->Y (RF)	0.01613	0.12273	0.48749
	B0->Y (RF)	0.01488	0.12299	0.49872

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X4H7R	A0	0.00268	0.00285	0.00350
	A0	-0.00034	-0.00034	-0.00033
	A0	0.00026	0.00026	0.00026
	A0	-0.00019	-0.00009	0.00055
	A1	0.00211	0.00229	0.00336
	A1	-0.00018	-0.00017	-0.00016
	A1	0.00026	0.00026	0.00026
	A1	-0.00025	-0.00005	0.00099
	B0	0.00200	0.00229	0.00384
	B0	-0.00018	-0.00017	-0.00017
	B0	0.00004	0.00006	0.00008
	B0	-0.00038	-0.00008	0.00160

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X4H7R	A0	-0.00027	-0.00017	0.00042
	A0	0.00033	0.00034	0.00034
	A0	-0.00026	-0.00026	-0.00026
	A0	0.00259	0.00275	0.00335
	A1	-0.00027	-0.00011	0.00069
	A1	0.00016	0.00017	0.00019
	A1	-0.00026	-0.00026	-0.00026
	A1	0.00211	0.00230	0.00312
	B0	-0.00027	-0.00002	0.00155
	B0	0.00033	0.00034	0.00034
	B0	-0.00006	-0.00006	-0.00004
	B0	0.00185	0.00215	0.00351

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7R	(A1 * B0 * !Y)	-0.00033	-0.00030	-0.00025
	(A1 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00056	0.00058	0.00061
	(A1 * !B0 * Y)	-0.00033	-0.00030	-0.00026
	(A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00056	0.00056	0.00057
	(!A1 * !B0 * Y)	-0.00041	-0.00041	-0.00041
	(!A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * Y)	0.00050	0.00050	0.00051

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7R	(A1 * B0 * !Y)	0.00034	0.00034	0.00035
	(A1 * B0 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00057	-0.00056	-0.00056
	(A1 * !B0 * Y)	0.00033	0.00033	0.00033
	(A1 * !B0 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00056	-0.00056	-0.00056
	(!A1 * !B0 * Y)	0.00041	0.00042	0.00044
	(!A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * Y)	-0.00049	-0.00047	-0.00042

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7R	(A0 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !Y)	0.00070	0.00070	0.00070
	(A0 * !B0 * Y)	-0.00041	-0.00037	-0.00032
	(A0 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * Y)	0.00049	0.00049	0.00050
	(!A0 * !B0 * Y)	-0.00048	-0.00048	-0.00048
	(!A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * Y)	0.00043	0.00044	0.00044

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7R	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00007	0.00007	0.00007
	(A0 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !Y)	-0.00070	-0.00070	-0.00069
	(A0 * !B0 * Y)	0.00040	0.00040	0.00041
	(A0 * !B0 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * Y)	-0.00049	-0.00049	-0.00048
	(!A0 * !B0 * Y)	0.00048	0.00049	0.00050
	(!A0 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * Y)	-0.00042	-0.00040	-0.00036

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7R	(!A0 * !A1 * Y)	-0.00057	-0.00056	-0.00056
	(!A0 * !A1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for B0 falling (conditional):

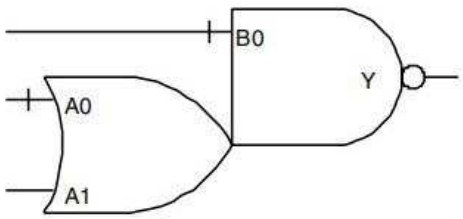
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X4H7R	(!A0 * !A1 * Y)	0.00056	0.00057	0.00057
	(!A0 * !A1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * Y)	-0.00014	-0.00014	-0.00014

OAI21X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X6H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X6H7R	0.00259	0.00273	0.00274	0.11543

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X6H7R	0.00000	0.55003	0.82340

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X6H7R	A0->Y (FR)	0.02476	0.17901	0.64505
	A1->Y (FR)	0.02144	0.17755	0.66060
	B0->Y (FR)	0.01040	0.10781	0.46444

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X6H7R	A0->Y (RF)	0.01760	0.12653	0.48955
	A1->Y (RF)	0.01521	0.12149	0.48670
	B0->Y (RF)	0.01417	0.12216	0.49918

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X6H7R	A0	0.00400	0.00416	0.00517
	A0	-0.00051	-0.00051	-0.00050
	A0	0.00039	0.00039	0.00045
	A0	-0.00038	-0.00021	0.00079
	A1	0.00306	0.00338	0.00502
	A1	-0.00026	-0.00026	-0.00025
	A1	0.00038	0.00039	0.00039
	A1	-0.00039	-0.00009	0.00151
	B0	0.00291	0.00334	0.00573
	B0	-0.00026	-0.00026	-0.00025
	B0	0.00008	0.00009	0.00012
	B0	-0.00057	-0.00010	0.00248

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X6H7R	A0	-0.00040	-0.00025	0.00067
	A0	0.00050	0.00051	0.00051
	A0	-0.00041	-0.00039	-0.00039
	A0	0.00388	0.00410	0.00504
	A1	-0.00045	-0.00020	0.00107
	A1	0.00025	0.00026	0.00028
	A1	-0.00039	-0.00039	-0.00038
	A1	0.00308	0.00336	0.00466
	B0	-0.00041	-0.00003	0.00239
	B0	0.00050	0.00051	0.00051
	B0	-0.00009	-0.00009	-0.00005
	B0	0.00275	0.00320	0.00530

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7R	(A1 * B0 * !Y)	-0.00050	-0.00045	-0.00037
	(A1 * B0 * !Y)	-0.00006	-0.00005	-0.00005
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	0.00085	0.00087	0.00091
	(A1 * !B0 * Y)	-0.00050	-0.00046	-0.00040
	(A1 * !B0 * Y)	-0.00007	-0.00006	-0.00006
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	0.00084	0.00085	0.00085
	(!A1 * !B0 * Y)	-0.00061	-0.00061	-0.00060
	(!A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * Y)	0.00004	0.00005	0.00005
	(!A1 * !B0 * Y)	0.00077	0.00077	0.00077

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7R	(A1 * B0 * !Y)	0.00051	0.00052	0.00052
	(A1 * B0 * !Y)	0.00005	0.00005	0.00006
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !Y)	-0.00085	-0.00084	-0.00084
	(A1 * !B0 * Y)	0.00049	0.00049	0.00050
	(A1 * !B0 * Y)	0.00006	0.00006	0.00007
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * Y)	-0.00084	-0.00084	-0.00083
	(!A1 * !B0 * Y)	0.00061	0.00062	0.00065
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * Y)	-0.00075	-0.00070	-0.00064

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7R	(A0 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	0.00101	0.00102	0.00102
	(A0 * !B0 * Y)	-0.00060	-0.00056	-0.00048
	(A0 * !B0 * Y)	-0.00007	-0.00006	-0.00006
	(A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * Y)	0.00072	0.00073	0.00073
	(!A0 * !B0 * Y)	-0.00071	-0.00071	-0.00071
	(!A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * Y)	0.00004	0.00004	0.00005
	(!A0 * !B0 * Y)	0.00065	0.00065	0.00065

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7R	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	-0.00101	-0.00101	-0.00101
	(A0 * !B0 * Y)	0.00059	0.00060	0.00060
	(A0 * !B0 * Y)	0.00006	0.00006	0.00007
	(A0 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * Y)	-0.00073	-0.00072	-0.00071
	(!A0 * !B0 * Y)	0.00071	0.00072	0.00075
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !B0 * Y)	-0.00063	-0.00059	-0.00053

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7R	(!A0 * !A1 * Y)	-0.00084	-0.00083	-0.00083
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for B0 falling (conditional):

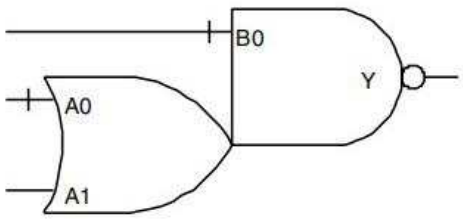
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X6H7R	(!A0 * !A1 * Y)	0.00083	0.00084	0.00084
	(!A0 * !A1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * Y)	-0.00022	-0.00021	-0.00021

OAI21X8H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI21 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1	B0	Y
0	0	x	1
x	1	0	1
x	1	1	0
1	x	0	1
1	x	1	0

Footprint

Cell Name	Area
OAI21X8H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	Y
OAI21X8H7R	0.00342	0.00362	0.00369	0.15389

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI21X8H7R	0.00000	0.73337	1.09787

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X8H7R	A0->Y (FR)	0.02438	0.17873	0.64524
	A1->Y (FR)	0.02102	0.17714	0.66059
	B0->Y (FR)	0.01015	0.10749	0.46393

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI21X8H7R	A0->Y (RF)	0.01733	0.12622	0.48966
	A1->Y (RF)	0.01497	0.12119	0.48610
	B0->Y (RF)	0.01391	0.12186	0.49922

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X8H7R	A0	0.00533	0.00559	0.00695
	A0	-0.00068	-0.00067	-0.00067
	A0	0.00051	0.00052	0.00065
	A0	-0.00048	-0.00026	0.00108
	A1	0.00409	0.00451	0.00671
	A1	-0.00035	-0.00035	-0.00033
	A1	0.00051	0.00052	0.00052
	A1	-0.00057	-0.00016	0.00197
	B0	0.00394	0.00453	0.00772
	B0	-0.00038	-0.00038	-0.00032
	B0	0.00007	0.00012	0.00016
	B0	-0.00078	-0.00017	0.00328

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI21X8H7R	A0	-0.00054	-0.00034	0.00090
	A0	0.00067	0.00067	0.00068
	A0	-0.00055	-0.00052	-0.00051
	A0	0.00515	0.00548	0.00675
	A1	-0.00057	-0.00024	0.00147
	A1	0.00033	0.00035	0.00036
	A1	-0.00052	-0.00052	-0.00051
	A1	0.00427	0.00457	0.00632
	B0	-0.00055	-0.00004	0.00322
	B0	0.00066	0.00067	0.00068
	B0	-0.00013	-0.00012	-0.00007
	B0	0.00374	0.00434	0.00714

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7R	(A1 * B0 * !Y)	-0.00067	-0.00060	-0.00050
	(A1 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * !Y)	0.00002	0.00002	0.00003
	(A1 * B0 * !Y)	0.00111	0.00113	0.00119
	(A1 * !B0 * Y)	-0.00067	-0.00061	-0.00053
	(A1 * !B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * Y)	0.00109	0.00110	0.00111
	(!A1 * !B0 * Y)	-0.00082	-0.00082	-0.00082
	(!A1 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A1 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * Y)	0.00098	0.00099	0.00099

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7R	(A1 * B0 * !Y)	0.00069	0.00070	0.00070
	(A1 * B0 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !Y)	-0.00111	-0.00110	-0.00109
	(A1 * !B0 * Y)	0.00066	0.00067	0.00067
	(A1 * !B0 * Y)	0.00007	0.00008	0.00009
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	-0.00110	-0.00109	-0.00109
	(!A1 * !B0 * Y)	0.00083	0.00084	0.00088
	(!A1 * !B0 * Y)	0.00002	0.00002	0.00003
	(!A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * Y)	-0.00096	-0.00090	-0.00082

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7R	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	-0.00013	-0.00013	-0.00013
	(A0 * B0 * !Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !Y)	0.00138	0.00139	0.00140
	(A0 * !B0 * Y)	-0.00081	-0.00075	-0.00065
	(A0 * !B0 * Y)	-0.00009	-0.00008	-0.00007
	(A0 * !B0 * Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * Y)	0.00099	0.00099	0.00100
	(!A0 * !B0 * Y)	-0.00096	-0.00095	-0.00095
	(!A0 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * Y)	0.00087	0.00088	0.00089

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7R	(A0 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !Y)	0.00013	0.00014	0.00014
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	-0.00139	-0.00138	-0.00137
	(A0 * !B0 * Y)	0.00080	0.00081	0.00081
	(A0 * !B0 * Y)	0.00007	0.00008	0.00009
	(A0 * !B0 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * Y)	-0.00099	-0.00098	-0.00097
	(!A0 * !B0 * Y)	0.00096	0.00097	0.00101
	(!A0 * !B0 * Y)	0.00002	0.00002	0.00003
	(!A0 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * Y)	-0.00086	-0.00080	-0.00072

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7R	(!A0 * !A1 * Y)	-0.00114	-0.00113	-0.00112
	(!A0 * !A1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for B0 falling (conditional):

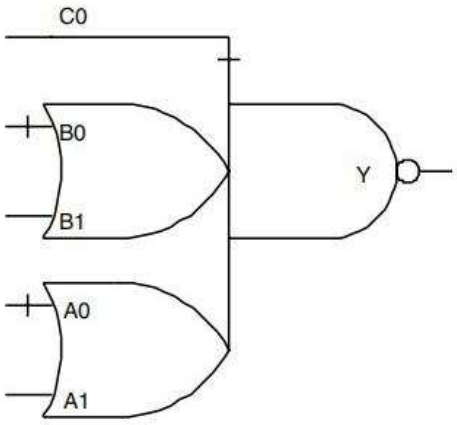
Cell Name	When	Power(pJ)		
		min	avg	max
OAI21X8H7R	(!A0 * !A1 * Y)	0.00113	0.00114	0.00114
	(!A0 * !A1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * Y)	-0.00029	-0.00029	-0.00029

OAI221X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X0P5H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X0P5H7R	0.00066	0.00059	0.00071	0.00072	0.00081	0.02061

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X0P5H7R	0.00000	0.10397	0.17338

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X0P5H7R	A0->Y (FR)	0.04804	0.20264	0.65881
	A1->Y (FR)	0.04979	0.20116	0.63971
	B0->Y (FR)	0.04334	0.19522	0.65160
	B1->Y (FR)	0.04585	0.19466	0.63381
	C0->Y (FR)	0.02042	0.11899	0.45819

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X0P5H7R	A0->Y (RF)	0.04771	0.18320	0.57673
	A1->Y (RF)	0.04981	0.18614	0.57918
	B0->Y (RF)	0.04468	0.18491	0.61323
	B1->Y (RF)	0.04785	0.18935	0.61681
	C0->Y (RF)	0.03978	0.17861	0.60631

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X0P5H7R	A0	0.00130	0.00139	0.00162
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00014	0.00014	0.00014
	A0	0.00005	0.00009	0.00032
	A1	0.00143	0.00148	0.00163
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00014	0.00014	0.00014
	A1	0.00000	0.00003	0.00017
	B0	0.00113	0.00119	0.00142
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00007	0.00007	0.00007
	B0	0.00004	0.00010	0.00034
	B1	0.00127	0.00130	0.00144
	B1	-0.00011	-0.00011	-0.00011
	B1	0.00007	0.00007	0.00007
	B1	0.00002	0.00006	0.00021
	C0	0.00101	0.00107	0.00140
	C0	-0.00007	-0.00007	-0.00007
	C0	0.00000	0.00002	0.00003
	C0	-0.00006	0.00001	0.00038

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X0P5H7R	A0	-0.00007	-0.00005	0.00004
	A0	0.00011	0.00011	0.00011
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00127	0.00130	0.00138
	A1	-0.00007	-0.00005	0.00003
	A1	0.00015	0.00015	0.00015
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00140	0.00143	0.00151
	B0	-0.00008	-0.00005	0.00008
	B0	0.00011	0.00011	0.00011
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00102	0.00106	0.00116
	B1	-0.00008	-0.00005	0.00006
	B1	0.00015	0.00015	0.00015
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00116	0.00119	0.00129
	C0	-0.00008	-0.00002	0.00030
	C0	0.00015	0.00015	0.00015
	C0	-0.00002	-0.00001	-0.00000
	C0	0.00092	0.00100	0.00124

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7R	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * B0 * !C0 * Y)	-0.00010	-0.00009	-0.00008
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * B1 * !C0 * Y)	-0.00010	-0.00009	-0.00008
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * C0 * Y)	-0.00010	-0.00009	-0.00008
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00018	0.00019	0.00019
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00010	-0.00010	-0.00009
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00018	0.00019	0.00019
	(!A1 * B0 * !C0 * Y)	-0.00011	-0.00012	-0.00011
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00012	-0.00012	-0.00011
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00011
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00012	-0.00012	-0.00011
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00016	0.00017	0.00017

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7R	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * !C0 * Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * B1 * !C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * !B1 * C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00019	-0.00019	-0.00018
	(A1 * !B0 * !B1 * !C0 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00019	-0.00019	-0.00018
	(!A1 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	-0.00017	-0.00016	-0.00013
	(!A1 * !B0 * B1 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00017	-0.00016	-0.00014
	(!A1 * !B0 * !B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00017	-0.00016	-0.00014
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00011	0.00012	0.00012
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7R	**(A0 * B0 * C0 * !Y)**	-0.00008	-0.00007	-0.00007
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00024	0.00024	0.00025
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00023	0.00024	0.00024
	(A0 * !B0 * B1 * C0 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * !B1 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7R	**(A0 * B0 * C0 * !Y)**	0.00008	0.00008	0.00008
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00008	0.00008	0.00008
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * B1 * C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !B1 * Y)	0.00008	0.00008	0.00008
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00024	-0.00024	-0.00023
	(!A0 * B0 * !C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !B0 * B1 * !C0 * Y)	0.00009	0.00009	0.00010
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !B0 * !B1 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7R	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(A0 * B1 * !C0 * Y)	-0.00014	-0.00013	-0.00012
	(A0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(A0 * !B1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * B1 * !C0 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * A1 * B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * C0 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00014	-0.00014	-0.00012
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7R	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(A0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !B1 * !C0 * Y)	0.00015	0.00016	0.00016
	(A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * Y)	-0.00015	-0.00014	-0.00012
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B1 * !C0 * Y)	0.00015	0.00016	0.00016
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00015	-0.00014	-0.00012
	(!A0 * !A1 * B1 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00004	-0.00005	-0.00004
	(!A0 * !A1 * !B1 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7R	**(A0 * B0 * C0 * !Y)**	-0.00008	-0.00007	-0.00007
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00024	0.00024	0.00025
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(A0 * !B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * B0 * C0 * !Y)	-0.00008	-0.00007	-0.00006
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * !A1 * B0 * C0 * Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * Y)	0.00002	0.00003	0.00002
	(!A0 * !A1 * B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P5H7R	**(A0 * B0 * C0 * !Y)**	0.00008	0.00008	0.00008
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * !C0 * Y)	0.00013	0.00014	0.00015
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * A1 * B0 * C0 * !Y)	0.00008	0.00008	0.00008
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B0 * !C0 * Y)	0.00013	0.00014	0.00015
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00018	-0.00017	-0.00014
	(!A0 * !A1 * B0 * C0 * Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * Y)	-0.00002	-0.00003	-0.00002
	(!A0 * !A1 * B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X0P5H7R	(A0 * !B0 * !B1 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * !B1 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

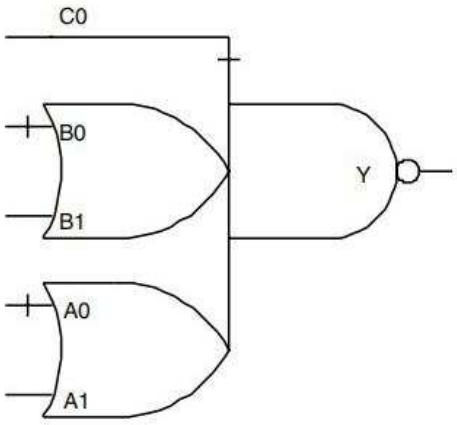
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X0P5H7R	(A0 * !B0 * !B1 * Y)	0.00021	0.00022	0.00022
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * Y)	0.00021	0.00022	0.00022
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * Y)	0.00021	0.00022	0.00022
	(!A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00008

OAI221X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X0P7H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X0P7H7R	0.00076	0.00065	0.00075	0.00071	0.00082	0.02337

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X0P7H7R	0.00000	0.11724	0.19168

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X0P7H7R	A0->Y (FR)	0.04737	0.20251	0.66114
	A1->Y (FR)	0.04741	0.19985	0.64242
	B0->Y (FR)	0.03946	0.19186	0.65156
	B1->Y (FR)	0.04161	0.19114	0.63374
	C0->Y (FR)	0.01874	0.11712	0.45933

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X0P7H7R	A0->Y (RF)	0.04598	0.18141	0.57645
	A1->Y (RF)	0.04769	0.18425	0.57876
	B0->Y (RF)	0.04099	0.18124	0.61119
	B1->Y (RF)	0.04360	0.18479	0.61298
	C0->Y (RF)	0.03610	0.17444	0.60222

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X0P7H7R	A0	0.00148	0.00154	0.00179
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00016	0.00016	0.00016
	A0	0.00008	0.00013	0.00038
	A1	0.00160	0.00164	0.00180
	A1	-0.00013	-0.00013	-0.00011
	A1	0.00016	0.00016	0.00016
	A1	0.00005	0.00008	0.00024
	B0	0.00120	0.00125	0.00152
	B0	-0.00008	-0.00008	-0.00007
	B0	0.00008	0.00008	0.00010
	B0	0.00006	0.00011	0.00039
	B1	0.00133	0.00137	0.00154
	B1	-0.00013	-0.00013	-0.00012
	B1	0.00008	0.00008	0.00009
	B1	0.00006	0.00010	0.00028
	C0	0.00106	0.00113	0.00151
	C0	-0.00008	-0.00008	0.00009
	C0	0.00001	0.00111	0.05326
	C0	-0.00074	0.00002	0.00045

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X0P7H7R	A0	-0.00009	-0.00005	0.00003
	A0	0.00013	0.00013	0.00013
	A0	-0.00015	-0.00015	-0.00015
	A0	0.00138	0.00142	0.00149
	A1	-0.00008	-0.00006	0.00002
	A1	0.00017	0.00018	0.00018
	A1	-0.00015	-0.00015	-0.00015
	A1	0.00152	0.00155	0.00162
	B0	-0.00008	-0.00004	0.00011
	B0	0.00013	0.00013	0.00013
	B0	-0.00008	-0.00008	-0.00006
	B0	0.00107	0.00110	0.00123
	B1	-0.00008	-0.00006	0.00008
	B1	0.00018	0.00018	0.00018
	B1	-0.00008	-0.00008	-0.00007
	B1	0.00117	0.00120	0.00133
	C0	-0.00009	-0.00002	0.00035
	C0	0.00018	0.00018	0.00018
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00098	0.00104	0.00133

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7R	**(A1 * B0 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00027	0.00028	0.00028
	(A1 * B0 * !C0 * Y)	-0.00014	-0.00013	-0.00012
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00027	0.00028	0.00028
	(A1 * !B0 * B1 * !C0 * Y)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * C0 * Y)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7R	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00028	-0.00028	-0.00027
	(A1 * !B0 * B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * !B1 * C0 * Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(A1 * !B0 * !B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	-0.00017	-0.00016	-0.00014
	(!A1 * !B0 * B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00017	-0.00016	-0.00014
	(!A1 * !B0 * !B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00018	-0.00016	-0.00015
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00017	-0.00016	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7R	**(A0 * B0 * C0 * !Y)**	-0.00009	-0.00009	-0.00007
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00025	0.00025	0.00026
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00009	-0.00009	-0.00008
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * B1 * C0 * !Y)	-0.00009	-0.00009	-0.00007
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	0.00025	0.00025	0.00026
	(A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00008
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A0 * B0 * !C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7R	**(A0 * B0 * C0 * !Y)**	0.00009	0.00010	0.00010
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * B1 * C0 * !Y)	0.00009	0.00010	0.00010
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !B0 * B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !B0 * !B1 * C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00023	-0.00021	-0.00020
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00023	-0.00021	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7R	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00028	0.00028	0.00028
	(A0 * B1 * !C0 * Y)	-0.00013	-0.00012	-0.00011
	(A0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * Y)	0.00021	0.00021	0.00021
	(A0 * !B1 * !C0 * Y)	-0.00015	-0.00015	-0.00014
	(A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * B1 * !C0 * Y)	-0.00013	-0.00012	-0.00011
	(!A0 * A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B1 * C0 * Y)	-0.00013	-0.00013	-0.00011
	(!A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7R	**(A0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * B1 * !C0 * Y)	0.00013	0.00013	0.00013
	(A0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * B1 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * Y)	0.00015	0.00015	0.00016
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !A1 * B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7R	**(A0 * B0 * C0 * !Y)**	-0.00009	-0.00009	-0.00007
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !Y)	0.00023	0.00024	0.00024
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00019	0.00019	0.00020
	(!A0 * A1 * B0 * C0 * !Y)	-0.00009	-0.00008	-0.00007
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * C0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00012	-0.00011	-0.00010
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X0P7H7R	**(A0 * B0 * C0 * !Y)**	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00011	0.00012	0.00012
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * !C0 * Y)	0.00013	0.00013	0.00014
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * A1 * B0 * C0 * !Y)	0.00009	0.00010	0.00010
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * !B0 * !C0 * Y)	0.00013	0.00013	0.00014
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !A1 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X0P7H7R	(A0 * !B0 * !B1 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * !B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

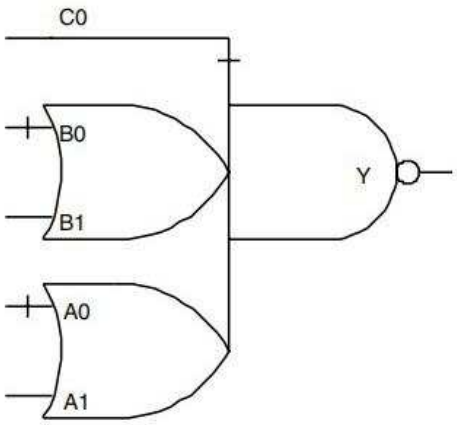
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X0P7H7R	(A0 * !B0 * !B1 * Y)	0.00022	0.00022	0.00022
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !B1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !B0 * B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00008

OAI221X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X1H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X1H7R	0.00079	0.00069	0.00084	0.00078	0.00084	0.02789

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X1H7R	0.00000	0.13659	0.21781

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X1H7R	A0->Y (FR)	0.04201	0.19757	0.66021
	A1->Y (FR)	0.04251	0.19574	0.64284
	B0->Y (FR)	0.03597	0.18881	0.65222
	B1->Y (FR)	0.03835	0.18872	0.63578
	C0->Y (FR)	0.01702	0.11518	0.45961

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X1H7R	A0->Y (RF)	0.04201	0.17946	0.58162
	A1->Y (RF)	0.04428	0.18279	0.58478
	B0->Y (RF)	0.03830	0.18089	0.61801
	B1->Y (RF)	0.04130	0.18492	0.62068
	C0->Y (RF)	0.03395	0.17458	0.60847

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X1H7R	A0	0.00158	0.00168	0.00199
	A0	-0.00010	-0.00010	-0.00009
	A0	0.00018	0.00019	0.00019
	A0	0.00007	0.00012	0.00042
	A1	0.00176	0.00180	0.00200
	A1	-0.00016	-0.00016	-0.00015
	A1	0.00018	0.00019	0.00019
	A1	0.00001	0.00005	0.00023
	B0	0.00134	0.00140	0.00172
	B0	-0.00010	-0.00010	-0.00009
	B0	0.00009	0.00009	0.00011
	B0	0.00005	0.00012	0.00044
	B1	0.00149	0.00155	0.00174
	B1	-0.00016	-0.00016	-0.00015
	B1	0.00009	0.00009	0.00009
	B1	0.00004	0.00009	0.00029
	C0	0.00119	0.00128	0.00173
	C0	-0.00010	-0.00010	-0.00009
	C0	0.00002	0.00002	0.00004
	C0	-0.00004	0.00006	0.00056

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X1H7R	A0	-0.00011	-0.00006	0.00006
	A0	0.00015	0.00016	0.00018
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00151	0.00155	0.00166
	A1	-0.00009	-0.00007	0.00004
	A1	0.00021	0.00021	0.00022
	A1	-0.00018	-0.00018	-0.00018
	A1	0.00168	0.00173	0.00182
	B0	-0.00011	-0.00006	0.00013
	B0	0.00015	0.00016	0.00016
	B0	-0.00010	-0.00009	-0.00009
	B0	0.00119	0.00122	0.00138
	B1	-0.00010	-0.00007	0.00009
	B1	0.00021	0.00021	0.00022
	B1	-0.00009	-0.00009	-0.00009
	B1	0.00134	0.00137	0.00151
	C0	-0.00011	-0.00003	0.00042
	C0	0.00021	0.00021	0.00022
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00107	0.00114	0.00149

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7R	**(A1 * B0 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00027	0.00027	0.00027
	(A1 * B0 * !C0 * Y)	-0.00014	-0.00014	-0.00012
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00021
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * B1 * !C0 * Y)	-0.00014	-0.00014	-0.00012
	(A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00021
	(A1 * !B0 * !B1 * C0 * Y)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00020	0.00020	0.00021
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00014	-0.00014	-0.00012
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * B0 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	0.00017	0.00018	0.00018
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00002	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7R	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(A1 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * !B1 * C0 * Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * C0 * Y)	-0.00021	-0.00020	-0.00020
	(A1 * !B0 * !B1 * !C0 * Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	-0.00018	-0.00016	-0.00014
	(!A1 * !B0 * B1 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00018	-0.00016	-0.00014
	(!A1 * !B0 * !B1 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00018	-0.00017	-0.00015
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7R	**(A0 * B0 * C0 * !Y)**	-0.00011	-0.00010	-0.00009
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00026	0.00026	0.00027
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * B1 * C0 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00026	0.00026	0.00027
	(A0 * !B0 * !B1 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00026	0.00026	0.00026
	(!A0 * B0 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7R	**(A0 * B0 * C0 * !Y)**	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * B1 * C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !B1 * Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B0 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00024	-0.00022	-0.00020
	(!A0 * !B0 * B1 * !C0 * Y)	0.00012	0.00013	0.00013
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00024	-0.00022	-0.00021
	(!A0 * !B0 * !B1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00024	-0.00023	-0.00021
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7R	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C0 * !Y)	0.00029	0.00030	0.00030
	(A0 * B1 * !C0 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * Y)	0.00021	0.00021	0.00022
	(A0 * !B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * A1 * B1 * !C0 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B1 * C0 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7R	**(A0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * B1 * !C0 * Y)	0.00016	0.00016	0.00016
	(A0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(A0 * !B1 * !C0 * Y)	0.00018	0.00019	0.00019
	(A0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00030	-0.00030	-0.00029
	(!A0 * A1 * B1 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B1 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * !B1 * !C0 * Y)	0.00018	0.00019	0.00019
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !A1 * B1 * C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7R	**(A0 * B0 * C0 * !Y)**	-0.00011	-0.00010	-0.00009
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00026	0.00026	0.00027
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00014	-0.00013	-0.00012
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00022	0.00022	0.00023
	(A0 * !B0 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A1 * B0 * C0 * !Y)	-0.00011	-0.00010	-0.00009
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * C0 * Y)	-0.00014	-0.00014	-0.00012
	(!A0 * !A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00014	-0.00014	-0.00012
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1H7R	**(A0 * B0 * C0 * !Y)**	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00023	-0.00022	-0.00022
	(A0 * !B0 * !C0 * Y)	0.00016	0.00016	0.00017
	(A0 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * A1 * B0 * C0 * !Y)	0.00011	0.00011	0.00011
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B0 * !C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00021	-0.00020	-0.00017
	(!A0 * !A1 * B0 * C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X1H7R	(A0 * !B0 * !B1 * Y)	-0.00025	-0.00025	-0.00024
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * !B1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C0 falling (conditional):

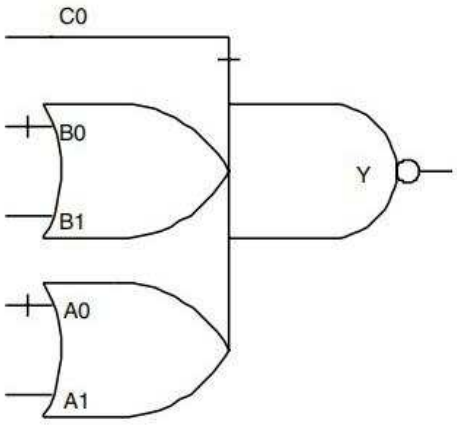
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X1H7R	(A0 * !B0 * !B1 * Y)	0.00025	0.00025	0.00025
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * B1 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005

OAI221X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X1P4H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X1P4H7R	0.00088	0.00076	0.00086	0.00083	0.00093	0.03190

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X1P4H7R	0.00000	0.15516	0.24439

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X1P4H7R	A0->Y (FR)	0.03983	0.19589	0.66072
	A1->Y (FR)	0.04131	0.19503	0.64470
	B0->Y (FR)	0.03310	0.18633	0.65260
	B1->Y (FR)	0.03558	0.18658	0.63804
	C0->Y (FR)	0.01579	0.11388	0.46009

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X1P4H7R	A0->Y (RF)	0.03981	0.17702	0.58186
	A1->Y (RF)	0.04206	0.18044	0.58342
	B0->Y (RF)	0.03543	0.17787	0.61658
	B1->Y (RF)	0.03844	0.18184	0.61978
	C0->Y (RF)	0.03140	0.17176	0.60774

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X1P4H7R	A0	0.00174	0.00183	0.00218
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00021	0.00021	0.00022
	A0	0.00005	0.00011	0.00045
	A1	0.00192	0.00198	0.00220
	A1	-0.00018	-0.00018	-0.00018
	A1	0.00021	0.00021	0.00022
	A1	0.00002	0.00005	0.00026
	B0	0.00141	0.00149	0.00186
	B0	-0.00011	-0.00011	-0.00010
	B0	0.00010	0.00011	0.00011
	B0	0.00004	0.00011	0.00048
	B1	0.00162	0.00167	0.00190
	B1	-0.00018	-0.00018	-0.00018
	B1	0.00010	0.00011	0.00011
	B1	0.00003	0.00008	0.00032
	C0	0.00128	0.00138	0.00190
	C0	-0.00011	-0.00011	-0.00011
	C0	0.00002	0.00003	0.00004
	C0	-0.00008	0.00003	0.00061

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X1P4H7R	A0	-0.00012	-0.00007	0.00007
	A0	0.00016	0.00018	0.00018
	A0	-0.00021	-0.00021	-0.00020
	A0	0.00167	0.00172	0.00184
	A1	-0.00010	-0.00008	0.00004
	A1	0.00025	0.00025	0.00025
	A1	-0.00021	-0.00021	-0.00020
	A1	0.00186	0.00189	0.00200
	B0	-0.00011	-0.00006	0.00018
	B0	0.00018	0.00018	0.00018
	B0	-0.00011	-0.00011	-0.00010
	B0	0.00129	0.00133	0.00152
	B1	-0.00011	-0.00007	0.00012
	B1	0.00025	0.00025	0.00025
	B1	-0.00011	-0.00011	-0.00010
	B1	0.00144	0.00149	0.00166
	C0	-0.00012	-0.00003	0.00050
	C0	0.00025	0.00025	0.00025
	C0	-0.00003	-0.00002	-0.00001
	C0	0.00118	0.00127	0.00167

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7R	**(A1 * B0 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00031	0.00031	0.00031
	(A1 * B0 * !C0 * Y)	-0.00017	-0.00016	-0.00014
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * B1 * !C0 * Y)	-0.00017	-0.00016	-0.00014
	(A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00022	0.00023	0.00023
	(A1 * !B0 * !B1 * C0 * Y)	-0.00017	-0.00016	-0.00014
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00022	0.00023	0.00023
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00017	-0.00016	-0.00014
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00022	0.00023	0.00023
	(!A1 * B0 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7R	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00023	-0.00022	-0.00022
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00031	-0.00031	-0.00031
	(A1 * !B0 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * !C0 * Y)	-0.00023	-0.00023	-0.00022
	(A1 * !B0 * !B1 * C0 * Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * C0 * Y)	-0.00023	-0.00022	-0.00022
	(A1 * !B0 * !B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00023	-0.00023	-0.00022
	(!A1 * B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !C0 * Y)	-0.00020	-0.00018	-0.00016
	(!A1 * !B0 * B1 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00020	-0.00018	-0.00016
	(!A1 * !B0 * !B1 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00017
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00020	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7R	**(A0 * B0 * C0 * !Y)**	-0.00013	-0.00012	-0.00010
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00027	0.00028	0.00029
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00012	-0.00012	-0.00010
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * B1 * C0 * !Y)	-0.00013	-0.00012	-0.00010
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00027	0.00028	0.00029
	(A0 * !B0 * !B1 * Y)	-0.00012	-0.00012	-0.00010
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * !C0 * Y)	-0.00014	-0.00015	-0.00014
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00000	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7R	**(A0 * B0 * C0 * !Y)**	0.00013	0.00013	0.00013
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00012	0.00012	0.00012
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * B1 * C0 * !Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00000	0.00000
	(A0 * !B0 * B1 * C0 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * !B1 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A0 * B0 * !C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00024	-0.00023	-0.00020
	(!A0 * !B0 * B1 * !C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00024	-0.00023	-0.00021
	(!A0 * !B0 * !B1 * C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00025	-0.00023	-0.00021
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7R	**(A0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C0 * !Y)	0.00031	0.00032	0.00032
	(A0 * B1 * !C0 * Y)	-0.00016	-0.00015	-0.00014
	(A0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * Y)	0.00023	0.00024	0.00024
	(A0 * !B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !B1 * !C0 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00031	0.00031	0.00032
	(!A0 * A1 * B1 * !C0 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * C0 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00017	-0.00015	-0.00014
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7R	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C0 * !Y)	-0.00032	-0.00031	-0.00031
	(A0 * B1 * !C0 * Y)	0.00016	0.00016	0.00016
	(A0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !C0 * Y)	-0.00024	-0.00023	-0.00023
	(A0 * !B1 * !C0 * Y)	0.00018	0.00018	0.00019
	(A0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * Y)	-0.00022	-0.00020	-0.00018
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00032	-0.00031	-0.00031
	(!A0 * A1 * B1 * !C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * !C0 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * A1 * !B1 * !C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !A1 * B1 * C0 * Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * !A1 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7R	**(A0 * B0 * C0 * !Y)**	-0.00013	-0.00012	-0.00010
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00026	0.00027	0.00028
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00015	-0.00014	-0.00013
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * A1 * B0 * C0 * !Y)	-0.00013	-0.00012	-0.00010
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00026	0.00027	0.00027
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * C0 * Y)	-0.00015	-0.00015	-0.00013
	(!A0 * !A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00015	-0.00015	-0.00013
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X1P4H7R	**(A0 * B0 * C0 * !Y)**	0.00013	0.00013	0.00013
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !C0 * Y)	0.00017	0.00017	0.00018
	(A0 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * A1 * B0 * C0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B0 * !C0 * Y)	0.00017	0.00017	0.00018
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00022	-0.00021	-0.00018
	(!A0 * !A1 * B0 * C0 * Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00017	0.00018	0.00018
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X1P4H7R	(A0 * !B0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	0.00007	0.00008	0.00008
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * B1 * Y)	0.00007	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

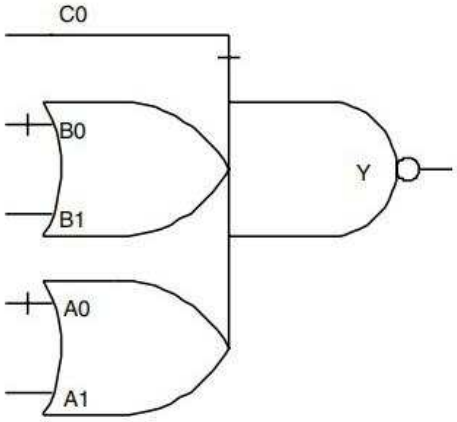
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X1P4H7R	(A0 * !B0 * !B1 * Y)	0.00026	0.00026	0.00027
	(A0 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !B0 * !B1 * Y)	0.00026	0.00026	0.00026
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * B0 * Y)	0.00026	0.00026	0.00027
	(!A0 * !A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * !A1 * !B0 * B1 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !B0 * B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00008	-0.00008	-0.00007

OAI221X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X2H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X2H7R	0.00097	0.00083	0.00103	0.00093	0.00103	0.03754

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X2H7R	0.00000	0.18361	0.28700

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X2H7R	A0->Y (FR)	0.03793	0.19439	0.66190
	A1->Y (FR)	0.03922	0.19354	0.64619
	B0->Y (FR)	0.03184	0.18530	0.65367
	B1->Y (FR)	0.03378	0.18522	0.63837
	C0->Y (FR)	0.01505	0.11323	0.46085

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X2H7R	A0->Y (RF)	0.03713	0.17201	0.57110
	A1->Y (RF)	0.03937	0.17542	0.57475
	B0->Y (RF)	0.03367	0.17390	0.60927
	B1->Y (RF)	0.03601	0.17722	0.61073
	C0->Y (RF)	0.02967	0.16784	0.59898

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X2H7R	A0	0.00199	0.00209	0.00251
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00024	0.00026	0.00026
	A0	0.00002	0.00010	0.00050
	A1	0.00219	0.00227	0.00252
	A1	-0.00022	-0.00022	-0.00022
	A1	0.00026	0.00026	0.00026
	A1	-0.00002	0.00003	0.00027
	B0	0.00164	0.00173	0.00216
	B0	-0.00014	-0.00013	-0.00012
	B0	0.00011	0.00013	0.00013
	B0	-0.00001	0.00008	0.00052
	B1	0.00183	0.00191	0.00218
	B1	-0.00022	-0.00022	-0.00019
	B1	0.00013	0.00013	0.00016
	B1	-0.00001	0.00005	0.00033
	C0	0.00148	0.00161	0.00223
	C0	-0.00014	-0.00013	-0.00012
	C0	0.00003	0.00003	0.00004
	C0	-0.00010	0.00003	0.00073

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X2H7R	A0	-0.00014	-0.00008	0.00010
	A0	0.00020	0.00022	0.00023
	A0	-0.00026	-0.00026	-0.00024
	A0	0.00193	0.00199	0.00215
	A1	-0.00012	-0.00009	0.00006
	A1	0.00030	0.00030	0.00030
	A1	-0.00025	-0.00025	-0.00025
	A1	0.00215	0.00219	0.00233
	B0	-0.00014	-0.00007	0.00021
	B0	0.00022	0.00022	0.00022
	B0	-0.00013	-0.00013	-0.00011
	B0	0.00152	0.00157	0.00181
	B1	-0.00013	-0.00009	0.00015
	B1	0.00030	0.00030	0.00032
	B1	-0.00013	-0.00013	-0.00013
	B1	0.00170	0.00174	0.00195
	C0	-0.00014	-0.00003	0.00060
	C0	0.00030	0.00030	0.00030
	C0	-0.00003	-0.00003	-0.00001
	C0	0.00136	0.00148	0.00196

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7R	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00035	0.00035	0.00035
	(A1 * B0 * !C0 * Y)	-0.00019	-0.00018	-0.00016
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00035	0.00035	0.00035
	(A1 * !B0 * B1 * !C0 * Y)	-0.00019	-0.00018	-0.00016
	(A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00025	0.00026	0.00026
	(A1 * !B0 * !B1 * C0 * Y)	-0.00019	-0.00018	-0.00016
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00019	-0.00018	-0.00016
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00025	0.00026	0.00026
	(!A1 * B0 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7R	**(A1 * B0 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00035	-0.00035	-0.00034
	(A1 * B0 * !C0 * Y)	0.00019	0.00019	0.00019
	(A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * !Y)	-0.00035	-0.00035	-0.00035
	(A1 * !B0 * B1 * !C0 * Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00003
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !C0 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * !B1 * C0 * Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * !B1 * !C0 * Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * B0 * !C0 * Y)	0.00021	0.00021	0.00022
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !C0 * Y)	-0.00022	-0.00020	-0.00017
	(!A1 * !B0 * B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00022	-0.00020	-0.00017
	(!A1 * !B0 * !B1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00022	-0.00021	-0.00018
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7R	**(A0 * B0 * C0 * !Y)**	-0.00015	-0.00014	-0.00012
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00029	0.00030	0.00031
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00015	-0.00014	-0.00012
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00029	0.00029	0.00030
	(A0 * !B0 * B1 * C0 * !Y)	-0.00015	-0.00014	-0.00012
	(A0 * !B0 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00029	0.00030	0.00031
	(A0 * !B0 * !B1 * Y)	-0.00015	-0.00014	-0.00012
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00029	0.00029	0.00030
	(!A0 * B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * B0 * !C0 * Y)	0.00026	0.00026	0.00027
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00026	0.00026	0.00027

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7R	**(A0 * B0 * C0 * !Y)**	0.00015	0.00015	0.00015
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00014	0.00015	0.00015
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00029	-0.00029	-0.00029
	(A0 * !B0 * B1 * C0 * !Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00030	-0.00029	-0.00029
	(A0 * !B0 * !B1 * Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00029	-0.00029	-0.00029
	(!A0 * B0 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !C0 * Y)	-0.00026	-0.00025	-0.00022
	(!A0 * !B0 * B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00027	-0.00025	-0.00023
	(!A0 * !B0 * !B1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00027	-0.00025	-0.00023
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7R	**(A0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00004	-0.00003	-0.00004
	(A0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !Y)	0.00038	0.00038	0.00038
	(A0 * B1 * !C0 * Y)	-0.00022	-0.00020	-0.00019
	(A0 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * Y)	0.00026	0.00026	0.00026
	(A0 * !B1 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B1 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00038	0.00038	0.00038
	(!A0 * A1 * B1 * !C0 * Y)	-0.00022	-0.00020	-0.00019
	(!A0 * A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C0 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * C0 * Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7R	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C0 * !Y)	-0.00038	-0.00038	-0.00038
	(A0 * B1 * !C0 * Y)	0.00021	0.00022	0.00022
	(A0 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B1 * !C0 * Y)	0.00024	0.00025	0.00025
	(A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B1 * !C0 * Y)	-0.00024	-0.00022	-0.00020
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00038	-0.00038	-0.00037
	(!A0 * A1 * B1 * !C0 * Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * A1 * !B1 * !C0 * Y)	0.00024	0.00025	0.00026
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00024	-0.00022	-0.00020
	(!A0 * !A1 * B1 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7R	**(A0 * B0 * C0 * !Y)**	-0.00015	-0.00014	-0.00012
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00029	0.00030	0.00031
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00018	-0.00016	-0.00015
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00026	0.00027	0.00027
	(A0 * !B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * A1 * B0 * C0 * !Y)	-0.00015	-0.00014	-0.00012
	(!A0 * A1 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00029	0.00030	0.00030
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	0.00024	0.00025	0.00025
	(!A0 * !A1 * B0 * C0 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X2H7R	**(A0 * B0 * C0 * !Y)**	0.00015	0.00015	0.00015
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !Y)	-0.00030	-0.00029	-0.00029
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00017	0.00017	0.00018
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00027	-0.00027	-0.00026
	(A0 * !B0 * !C0 * Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	-0.00024	-0.00023	-0.00021
	(!A0 * A1 * B0 * C0 * !Y)	0.00015	0.00015	0.00015
	(!A0 * A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * C0 * !Y)	-0.00030	-0.00029	-0.00029
	(!A0 * A1 * !B0 * !C0 * Y)	0.00020	0.00020	0.00021
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00024	-0.00023	-0.00020
	(!A0 * !A1 * B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00021
	(!A0 * !A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X2H7R	(A0 * !B0 * !B1 * Y)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !B0 * !B1 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * B1 * Y)	0.00007	0.00007	0.00008

Passive power(pJ) for C0 falling (conditional):

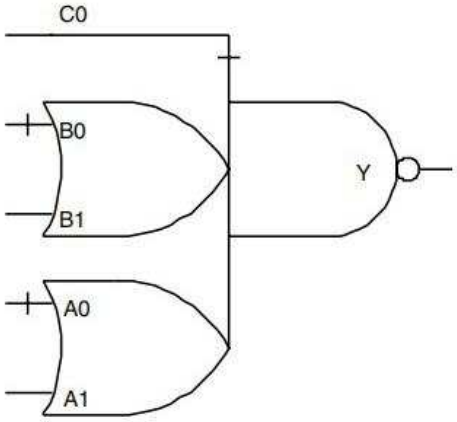
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X2H7R	(A0 * !B0 * !B1 * Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !B0 * !B1 * Y)	0.00030	0.00030	0.00030
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * B1 * Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00008	-0.00007	-0.00007

OAI221X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X3H7R	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X3H7R	0.00161	0.00152	0.00170	0.00163	0.00157	0.05781

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X3H7R	0.00000	0.28804	0.45823

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X3H7R	A0->Y (FR)	0.03644	0.19222	0.65789
	A1->Y (FR)	0.04019	0.19385	0.64255
	B0->Y (FR)	0.03088	0.18385	0.65170
	B1->Y (FR)	0.03508	0.18578	0.63599
	C0->Y (FR)	0.01412	0.11093	0.45677

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X3H7R	A0->Y (RF)	0.03856	0.17507	0.57574
	A1->Y (RF)	0.04282	0.18069	0.58091
	B0->Y (RF)	0.03442	0.17567	0.61229
	B1->Y (RF)	0.03861	0.18138	0.61661
	C0->Y (RF)	0.03001	0.17016	0.60403

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X3H7R	A0	0.00343	0.00362	0.00428
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00039	0.00040	0.00040
	A0	0.00012	0.00024	0.00088
	A1	0.00402	0.00411	0.00447
	A1	-0.00033	-0.00033	-0.00032
	A1	0.00039	0.00040	0.00040
	A1	0.00019	0.00026	0.00061
	B0	0.00283	0.00296	0.00365
	B0	-0.00020	-0.00020	-0.00020
	B0	0.00019	0.00020	0.00020
	B0	0.00001	0.00015	0.00083
	B1	0.00332	0.00344	0.00383
	B1	-0.00033	-0.00033	-0.00032
	B1	0.00020	0.00020	0.00026
	B1	0.00014	0.00024	0.00061
	C0	0.00263	0.00283	0.00384
	C0	-0.00020	-0.00020	-0.00020
	C0	0.00003	0.00005	0.00007
	C0	0.00001	0.00021	0.00119

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X3H7R	A0	-0.00016	-0.00006	0.00021
	A0	0.00032	0.00033	0.00033
	A0	-0.00038	-0.00038	-0.00038
	A0	0.00332	0.00339	0.00362
	A1	-0.00013	-0.00008	0.00012
	A1	0.00045	0.00045	0.00045
	A1	-0.00038	-0.00038	-0.00038
	A1	0.00364	0.00374	0.00391
	B0	-0.00015	-0.00005	0.00038
	B0	0.00032	0.00033	0.00033
	B0	-0.00020	-0.00020	-0.00019
	B0	0.00265	0.00274	0.00310
	B1	-0.00014	-0.00007	0.00026
	B1	0.00045	0.00045	0.00045
	B1	-0.00020	-0.00020	-0.00015
	B1	0.00290	0.00300	0.00330
	C0	-0.00021	-0.00003	0.00101
	C0	0.00044	0.00045	0.00045
	C0	-0.00005	-0.00005	-0.00003
	C0	0.00227	0.00245	0.00322

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7R	**(A1 * B0 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00063	0.00063	0.00063
	(A1 * B0 * !C0 * Y)	-0.00033	-0.00031	-0.00026
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !C0 * Y)	0.00045	0.00046	0.00046
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00062	0.00063	0.00064
	(A1 * !B0 * B1 * !C0 * Y)	-0.00034	-0.00031	-0.00027
	(A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00045	0.00046	0.00046
	(A1 * !B0 * !B1 * C0 * Y)	-0.00034	-0.00031	-0.00026
	(A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00045	0.00046	0.00046
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00034	-0.00031	-0.00027
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00045	0.00046	0.00046
	(!A1 * B0 * !C0 * Y)	-0.00039	-0.00039	-0.00039
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !C0 * Y)	0.00038	0.00038	0.00038
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00039	-0.00039	-0.00039
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	0.00038	0.00038	0.00039
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00039	-0.00039	-0.00039
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	0.00039	0.00039	0.00039
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00039	-0.00039	-0.00039
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00038	0.00038	0.00038

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7R	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00063	-0.00063	-0.00062
	(A1 * B0 * !C0 * Y)	0.00033	0.00033	0.00033
	(A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	-0.00045	-0.00045	-0.00044
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * !Y)	-0.00063	-0.00063	-0.00062
	(A1 * !B0 * B1 * !C0 * Y)	0.00033	0.00033	0.00034
	(A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !C0 * Y)	-0.00045	-0.00045	-0.00045
	(A1 * !B0 * !B1 * C0 * Y)	0.00033	0.00033	0.00034
	(A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00045	-0.00045	-0.00044
	(A1 * !B0 * !B1 * !C0 * Y)	0.00033	0.00034	0.00034
	(A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00045	-0.00045	-0.00045
	(!A1 * B0 * !C0 * Y)	0.00039	0.00039	0.00039
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !C0 * Y)	-0.00038	-0.00035	-0.00030
	(!A1 * !B0 * B1 * !C0 * Y)	0.00039	0.00039	0.00039
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00038	-0.00035	-0.00031
	(!A1 * !B0 * !B1 * C0 * Y)	0.00039	0.00039	0.00039
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00039	-0.00036	-0.00032
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00039	0.00039	0.00039
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00038	-0.00036	-0.00032

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7R	**(A0 * B0 * C0 * !Y)**	-0.00027	-0.00024	-0.00019
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00050	0.00052	0.00055
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00027	-0.00025	-0.00021
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00050	0.00050	0.00051
	(A0 * !B0 * B1 * C0 * !Y)	-0.00027	-0.00024	-0.00019
	(A0 * !B0 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00050	0.00052	0.00054
	(A0 * !B0 * !B1 * Y)	-0.00027	-0.00025	-0.00021
	(A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00050	0.00050	0.00051
	(!A0 * B0 * !C0 * Y)	-0.00034	-0.00034	-0.00033
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * !C0 * Y)	0.00042	0.00043	0.00043
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00034	-0.00034	-0.00033
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	0.00042	0.00043	0.00043
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00034	-0.00034	-0.00033
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * C0 * Y)	0.00044	0.00044	0.00044
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00034	-0.00034	-0.00033
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00043	0.00043	0.00043

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7R	**(A0 * B0 * C0 * !Y)**	0.00027	0.00028	0.00028
	(A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00050	-0.00050	-0.00049
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00027	0.00027	0.00027
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00050	-0.00050	-0.00049
	(A0 * !B0 * B1 * C0 * !Y)	0.00027	0.00028	0.00028
	(A0 * !B0 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00050	-0.00050	-0.00049
	(A0 * !B0 * !B1 * Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	-0.00050	-0.00049	-0.00049
	(!A0 * B0 * !C0 * Y)	0.00034	0.00034	0.00034
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !C0 * Y)	-0.00043	-0.00039	-0.00035
	(!A0 * !B0 * B1 * !C0 * Y)	0.00034	0.00034	0.00034
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00043	-0.00040	-0.00035
	(!A0 * !B0 * !B1 * C0 * Y)	0.00033	0.00034	0.00034
	(!A0 * !B0 * !B1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00043	-0.00041	-0.00037
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00033	0.00034	0.00034
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00043	-0.00040	-0.00036

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7R	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !Y)	0.00071	0.00072	0.00072
	(A0 * B1 * !C0 * Y)	-0.00036	-0.00033	-0.00029
	(A0 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * Y)	0.00050	0.00051	0.00052
	(A0 * !B1 * !C0 * Y)	-0.00042	-0.00042	-0.00041
	(A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B1 * !C0 * Y)	0.00045	0.00046	0.00046
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00004
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00071	0.00071	0.00072
	(!A0 * A1 * B1 * !C0 * Y)	-0.00036	-0.00034	-0.00029
	(!A0 * A1 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * !C0 * Y)	0.00050	0.00051	0.00052
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00042	-0.00042	-0.00041
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	0.00045	0.00045	0.00046
	(!A0 * !A1 * B1 * C0 * Y)	-0.00037	-0.00034	-0.00029
	(!A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * C0 * Y)	0.00015	0.00015	0.00017
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00037	-0.00034	-0.00030
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B1 * !C0 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00042	-0.00042	-0.00042
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00043	-0.00042	-0.00042
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00011	0.00012	0.00012
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7R	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !Y)	-0.00072	-0.00071	-0.00071
	(A0 * B1 * !C0 * Y)	0.00036	0.00036	0.00036
	(A0 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * Y)	-0.00051	-0.00050	-0.00050
	(A0 * !B1 * !C0 * Y)	0.00042	0.00042	0.00044
	(A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B1 * !C0 * Y)	-0.00045	-0.00043	-0.00039
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	-0.00072	-0.00071	-0.00071
	(!A0 * A1 * B1 * !C0 * Y)	0.00036	0.00036	0.00036
	(!A0 * A1 * B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * Y)	-0.00050	-0.00050	-0.00050
	(!A0 * A1 * !B1 * !C0 * Y)	0.00042	0.00042	0.00044
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00045	-0.00042	-0.00038
	(!A0 * !A1 * B1 * C0 * Y)	0.00037	0.00037	0.00037
	(!A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * C0 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * B1 * !C0 * Y)	0.00037	0.00037	0.00037
	(!A0 * !A1 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * C0 * Y)	0.00042	0.00042	0.00043
	(!A0 * !A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00043	0.00043	0.00043
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7R	**(A0 * B0 * C0 * !Y)**	-0.00024	-0.00022	-0.00018
	(A0 * B0 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00059	0.00060	0.00061
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00031	-0.00028	-0.00025
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00052	0.00052	0.00053
	(A0 * !B0 * !C0 * Y)	-0.00036	-0.00035	-0.00035
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !C0 * Y)	0.00047	0.00047	0.00047
	(!A0 * A1 * B0 * C0 * !Y)	-0.00024	-0.00021	-0.00018
	(!A0 * A1 * B0 * C0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00059	0.00059	0.00061
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00036	-0.00036	-0.00035
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * !B0 * !C0 * Y)	0.00047	0.00047	0.00047
	(!A0 * !A1 * B0 * C0 * Y)	-0.00032	-0.00030	-0.00026
	(!A0 * !A1 * B0 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * C0 * Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00032	-0.00030	-0.00026
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * B0 * !C0 * Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00036	-0.00036	-0.00036
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00036	-0.00036	-0.00036
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X3H7R	**(A0 * B0 * C0 * !Y)**	0.00024	0.00024	0.00024
	(A0 * B0 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00059	-0.00058	-0.00058
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00030	0.00030	0.00031
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00052	-0.00052	-0.00052
	(A0 * !B0 * !C0 * Y)	0.00036	0.00036	0.00038
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !C0 * Y)	-0.00047	-0.00044	-0.00040
	(!A0 * A1 * B0 * C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * A1 * B0 * C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00059	-0.00058	-0.00058
	(!A0 * A1 * !B0 * !C0 * Y)	0.00036	0.00036	0.00038
	(!A0 * A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00047	-0.00044	-0.00039
	(!A0 * !A1 * B0 * C0 * Y)	0.00032	0.00032	0.00032
	(!A0 * !A1 * B0 * C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * C0 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !A1 * B0 * !C0 * Y)	0.00032	0.00032	0.00032
	(!A0 * !A1 * B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * C0 * Y)	0.00036	0.00036	0.00037
	(!A0 * !A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00036	0.00037	0.00037
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00016	-0.00016	-0.00016

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X3H7R	(A0 * !B0 * !B1 * Y)	-0.00045	-0.00045	-0.00045
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00005	0.00005	0.00005
	(A0 * !B0 * !B1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * Y)	-0.00045	-0.00045	-0.00044
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * !B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !B0 * !B1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * Y)	-0.00045	-0.00045	-0.00044
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00045	-0.00045	-0.00044
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * B1 * Y)	0.00015	0.00015	0.00016

Passive power(pJ) for C0 falling (conditional):

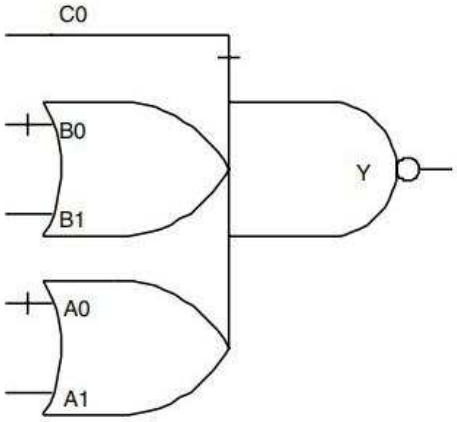
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X3H7R	(A0 * !B0 * !B1 * Y)	0.00045	0.00045	0.00045
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * Y)	0.00045	0.00045	0.00045
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !B0 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * B0 * Y)	0.00045	0.00045	0.00045
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * B1 * Y)	0.00045	0.00045	0.00045
	(!A0 * !A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00015	-0.00015	-0.00015

OAI221X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI221 cell provides the logical inverted AND of two OR groups and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT					OUTPUT
A0	A1	B0	B1	C0	Y
0	0	x	x	x	1
x	1	0	0	x	1
x	1	x	1	0	1
x	1	x	1	1	0
x	1	1	x	0	1
x	1	1	x	1	0
1	x	0	0	x	1
1	x	x	1	0	1
1	x	x	1	1	0
1	x	1	x	0	1
1	x	1	x	1	0

Footprint

Cell Name	Area
OAI221X4H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	B0	B1	C0	Y
OAI221X4H7R	0.00186	0.00176	0.00194	0.00184	0.00182	0.07433

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI221X4H7R	0.00000	0.36722	0.57399

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X4H7R	A0->Y (FR)	0.03268	0.18895	0.65854
	A1->Y (FR)	0.03595	0.19030	0.64388
	B0->Y (FR)	0.02752	0.18127	0.65356
	B1->Y (FR)	0.03157	0.18326	0.63889
	C0->Y (FR)	0.01279	0.10960	0.45849

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI221X4H7R	A0->Y (RF)	0.03446	0.16969	0.56916
	A1->Y (RF)	0.03828	0.17487	0.57472
	B0->Y (RF)	0.03044	0.17072	0.60768
	B1->Y (RF)	0.03451	0.17635	0.61197
	C0->Y (RF)	0.02696	0.16612	0.59966

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X4H7R	A0	0.00398	0.00421	0.00506
	A0	-0.00027	-0.00027	-0.00026
	A0	0.00051	0.00052	0.00052
	A0	0.00003	0.00018	0.00101
	A1	0.00462	0.00476	0.00524
	A1	-0.00044	-0.00043	-0.00043
	A1	0.00051	0.00052	0.00052
	A1	0.00006	0.00014	0.00061
	B0	0.00326	0.00342	0.00433
	B0	-0.00027	-0.00027	-0.00026
	B0	0.00023	0.00026	0.00033
	B0	-0.00008	0.00010	0.00097
	B1	0.00389	0.00400	0.00451
	B1	-0.00043	-0.00043	-0.00043
	B1	0.00026	0.00026	0.00026
	B1	0.00004	0.00017	0.00067
	C0	0.00306	0.00332	0.00462
	C0	-0.00027	-0.00027	-0.00026
	C0	0.00004	0.00006	0.00009
	C0	-0.00015	0.00011	0.00148

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI221X4H7R	A0	-0.00024	-0.00011	0.00029
	A0	0.00043	0.00043	0.00044
	A0	-0.00050	-0.00050	-0.00049
	A0	0.00388	0.00403	0.00438
	A1	-0.00021	-0.00014	0.00015
	A1	0.00059	0.00059	0.00060
	A1	-0.00050	-0.00050	-0.00044
	A1	0.00439	0.00447	0.00473
	B0	-0.00028	-0.00014	0.00050
	B0	0.00038	0.00043	0.00045
	B0	-0.00027	-0.00026	-0.00023
	B0	0.00310	0.00321	0.00372
	B1	-0.00020	-0.00011	0.00034
	B1	0.00059	0.00059	0.00060
	B1	-0.00026	-0.00026	-0.00020
	B1	0.00349	0.00358	0.00399
	C0	-0.00026	-0.00004	0.00133
	C0	0.00059	0.00059	0.00059
	C0	-0.00006	-0.00006	-0.00002
	C0	0.00277	0.00294	0.00395

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7R	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !Y)	0.00070	0.00071	0.00071
	(A1 * B0 * !C0 * Y)	-0.00040	-0.00037	-0.00032
	(A1 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !C0 * Y)	0.00051	0.00051	0.00052
	(A1 * !B0 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * C0 * !Y)	0.00071	0.00071	0.00071
	(A1 * !B0 * B1 * !C0 * Y)	-0.00041	-0.00038	-0.00033
	(A1 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00004	-0.00002
	(A1 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * B1 * !C0 * Y)	0.00051	0.00051	0.00052
	(A1 * !B0 * !B1 * C0 * Y)	-0.00040	-0.00037	-0.00032
	(A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00051	0.00051	0.00051
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00041	-0.00038	-0.00033
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00051	0.00051	0.00051
	(!A1 * B0 * !C0 * Y)	-0.00047	-0.00047	-0.00047
	(!A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !C0 * Y)	0.00003	0.00004	0.00004
	(!A1 * B0 * !C0 * Y)	0.00043	0.00043	0.00043
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00048	-0.00047	-0.00047
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * B1 * !C0 * Y)	0.00003	0.00004	0.00004
	(!A1 * !B0 * B1 * !C0 * Y)	0.00043	0.00043	0.00043
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00047	-0.00047	-0.00047
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	0.00044	0.00044	0.00045
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00048	-0.00047	-0.00047
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00043	0.00043	0.00043

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7R	**(A1 * B0 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !Y)	-0.00071	-0.00071	-0.00070
	(A1 * B0 * !C0 * Y)	0.00040	0.00040	0.00040
	(A1 * B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !C0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !C0 * Y)	-0.00051	-0.00051	-0.00050
	(A1 * !B0 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(A1 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * C0 * !Y)	-0.00071	-0.00071	-0.00070
	(A1 * !B0 * B1 * !C0 * Y)	0.00040	0.00040	0.00041
	(A1 * !B0 * B1 * !C0 * Y)	0.00002	0.00004	0.00005
	(A1 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * B1 * !C0 * Y)	-0.00051	-0.00051	-0.00050
	(A1 * !B0 * !B1 * C0 * Y)	0.00040	0.00040	0.00040
	(A1 * !B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00051	-0.00051	-0.00050
	(A1 * !B0 * !B1 * !C0 * Y)	0.00040	0.00040	0.00041
	(A1 * !B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00051	-0.00051	-0.00050
	(!A1 * B0 * !C0 * Y)	0.00047	0.00047	0.00048
	(!A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00003
	(!A1 * B0 * !C0 * Y)	-0.00043	-0.00039	-0.00034
	(!A1 * !B0 * B1 * !C0 * Y)	0.00047	0.00047	0.00048
	(!A1 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00003
	(!A1 * !B0 * B1 * !C0 * Y)	-0.00043	-0.00040	-0.00034
	(!A1 * !B0 * !B1 * C0 * Y)	0.00047	0.00047	0.00047
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00044	-0.00040	-0.00036
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00047	0.00047	0.00048
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00043	-0.00040	-0.00036

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7R	**(A0 * B0 * C0 * !Y)**	-0.00034	-0.00030	-0.00025
	(A0 * B0 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !Y)	0.00056	0.00058	0.00061
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00034	-0.00031	-0.00026
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00056	0.00056	0.00057
	(A0 * !B0 * B1 * C0 * !Y)	-0.00034	-0.00030	-0.00025
	(A0 * !B0 * B1 * C0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * B1 * C0 * !Y)	0.00056	0.00058	0.00061
	(A0 * !B0 * !B1 * Y)	-0.00034	-0.00031	-0.00027
	(A0 * !B0 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00056	0.00056	0.00057
	(!A0 * B0 * !C0 * Y)	-0.00042	-0.00041	-0.00041
	(!A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * B0 * !C0 * Y)	0.00048	0.00048	0.00048
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00042	-0.00041	-0.00041
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * B1 * !C0 * Y)	0.00048	0.00048	0.00048
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00041	-0.00041	-0.00041
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * C0 * Y)	0.00049	0.00049	0.00050
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00042	-0.00041	-0.00041
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00048	0.00048	0.00048

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7R	**(A0 * B0 * C0 * !Y)**	0.00035	0.00035	0.00035
	(A0 * B0 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00056	-0.00056	-0.00056
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00033	0.00034	0.00034
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	0.00004	0.00005	0.00005
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y) + (A0 * !B0 * B1 * !C0 * Y)	-0.00056	-0.00056	-0.00055
	(A0 * !B0 * B1 * C0 * !Y)	0.00034	0.00035	0.00035
	(A0 * !B0 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * B1 * C0 * !Y)	-0.00057	-0.00056	-0.00055
	(A0 * !B0 * !B1 * Y)	0.00034	0.00034	0.00034
	(A0 * !B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	-0.00056	-0.00056	-0.00056
	(!A0 * B0 * !C0 * Y)	0.00042	0.00042	0.00042
	(!A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * B0 * !C0 * Y)	-0.00048	-0.00044	-0.00039
	(!A0 * !B0 * B1 * !C0 * Y)	0.00042	0.00042	0.00042
	(!A0 * !B0 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * B1 * !C0 * Y)	-0.00048	-0.00044	-0.00039
	(!A0 * !B0 * !B1 * C0 * Y)	0.00041	0.00042	0.00042
	(!A0 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * C0 * Y)	-0.00049	-0.00045	-0.00040
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00041	0.00041	0.00042
	(!A0 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !B1 * !C0 * Y)	-0.00048	-0.00045	-0.00041

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7R	**(A0 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * B1 * C0 * !Y)	0.00079	0.00080	0.00080
	(A0 * B1 * !C0 * Y)	-0.00042	-0.00039	-0.00033
	(A0 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * B1 * !C0 * Y)	0.00057	0.00057	0.00058
	(A0 * !B1 * !C0 * Y)	-0.00049	-0.00049	-0.00049
	(A0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !B1 * !C0 * Y)	0.00051	0.00051	0.00051
	(!A0 * A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	-0.00006	-0.00006	-0.00006
	(!A0 * A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B1 * C0 * !Y)	0.00079	0.00079	0.00080
	(!A0 * A1 * B1 * !C0 * Y)	-0.00042	-0.00039	-0.00034
	(!A0 * A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * B1 * !C0 * Y)	0.00057	0.00057	0.00058
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00049	-0.00049	-0.00049
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	0.00051	0.00051	0.00051
	(!A0 * !A1 * B1 * C0 * Y)	-0.00043	-0.00040	-0.00034
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00043	-0.00040	-0.00035
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	0.00014	0.00014	0.00015
	(!A0 * !A1 * B1 * !C0 * Y)	0.00013	0.00013	0.00014
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00050	-0.00050	-0.00050
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * !B1 * C0 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00050	-0.00050	-0.00049
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00012	0.00012	0.00012

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7R	**(A0 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !Y)	-0.00080	-0.00079	-0.00079
	(A0 * B1 * !C0 * Y)	0.00042	0.00042	0.00042
	(A0 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * Y)	-0.00057	-0.00056	-0.00056
	(A0 * !B1 * !C0 * Y)	0.00049	0.00050	0.00051
	(A0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B1 * !C0 * Y)	-0.00051	-0.00048	-0.00043
	(!A0 * A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B1 * C0 * !Y)	0.00006	0.00006	0.00007
	(!A0 * A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * C0 * !Y)	-0.00080	-0.00079	-0.00078
	(!A0 * A1 * B1 * !C0 * Y)	0.00042	0.00042	0.00042
	(!A0 * A1 * B1 * !C0 * Y)	0.00003	0.00004	0.00004
	(!A0 * A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B1 * !C0 * Y)	-0.00057	-0.00056	-0.00056
	(!A0 * A1 * !B1 * !C0 * Y)	0.00049	0.00050	0.00052
	(!A0 * A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B1 * !C0 * Y)	-0.00051	-0.00047	-0.00042
	(!A0 * !A1 * B1 * C0 * Y)	0.00043	0.00044	0.00044
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C0 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * B1 * !C0 * Y)	0.00043	0.00044	0.00044
	(!A0 * !A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00015	-0.00014	-0.00014
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B1 * C0 * Y)	0.00050	0.00050	0.00050
	(!A0 * !A1 * !B1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * !B1 * C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00050	0.00051	0.00051
	(!A0 * !A1 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * Y)	-0.00012	-0.00012	-0.00012

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7R	**(A0 * B0 * C0 * !Y)**	-0.00031	-0.00028	-0.00023
	(A0 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * B0 * C0 * !Y)	0.00064	0.00065	0.00067
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00037	-0.00034	-0.00030
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00057	0.00058	0.00059
	(A0 * !B0 * !C0 * Y)	-0.00043	-0.00043	-0.00042
	(A0 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * !C0 * Y)	0.00052	0.00052	0.00053
	(!A0 * A1 * B0 * C0 * !Y)	-0.00031	-0.00028	-0.00023
	(!A0 * A1 * B0 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * C0 * !Y)	0.00064	0.00065	0.00066
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00043	-0.00043	-0.00043
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * !B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * !B0 * !C0 * Y)	0.00052	0.00052	0.00053
	(!A0 * !A1 * B0 * C0 * Y)	-0.00038	-0.00035	-0.00031
	(!A0 * !A1 * B0 * C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * C0 * Y)	0.00015	0.00016	0.00017
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00038	-0.00035	-0.00031
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * !C0 * Y)	0.00015	0.00016	0.00017
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00043	-0.00043	-0.00043
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C0 * Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00044	-0.00043	-0.00043
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00014	0.00014	0.00015

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI221X4H7R	**(A0 * B0 * C0 * !Y)**	0.00031	0.00031	0.00031
	(A0 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !Y)	-0.00064	-0.00064	-0.00063
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00036	0.00037	0.00037
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y) + (!A0 * A1 * B0 * !C0 * Y)	-0.00058	-0.00057	-0.00057
	(A0 * !B0 * !C0 * Y)	0.00043	0.00044	0.00046
	(A0 * !B0 * !C0 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * !C0 * Y)	-0.00051	-0.00049	-0.00044
	(!A0 * A1 * B0 * C0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * A1 * B0 * C0 * !Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * C0 * !Y)	-0.00064	-0.00064	-0.00063
	(!A0 * A1 * !B0 * !C0 * Y)	0.00043	0.00044	0.00046
	(!A0 * A1 * !B0 * !C0 * Y)	0.00000	0.00001	0.00002
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * !B0 * !C0 * Y)	-0.00051	-0.00048	-0.00043
	(!A0 * !A1 * B0 * C0 * Y)	0.00038	0.00038	0.00039
	(!A0 * !A1 * B0 * C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * B0 * !C0 * Y)	0.00038	0.00038	0.00038
	(!A0 * !A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * C0 * Y)	0.00044	0.00044	0.00044
	(!A0 * !A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00002
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00044	0.00044	0.00045
	(!A0 * !A1 * !B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !C0 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X4H7R	(A0 * !B0 * !B1 * Y)	-0.00055	-0.00055	-0.00054
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(A0 * !B0 * !B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * Y)	-0.00055	-0.00055	-0.00054
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !B0 * !B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * Y)	-0.00055	-0.00055	-0.00054
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00055	-0.00055	-0.00054
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * B1 * Y)	0.00014	0.00014	0.00015

Passive power(pJ) for C0 falling (conditional):

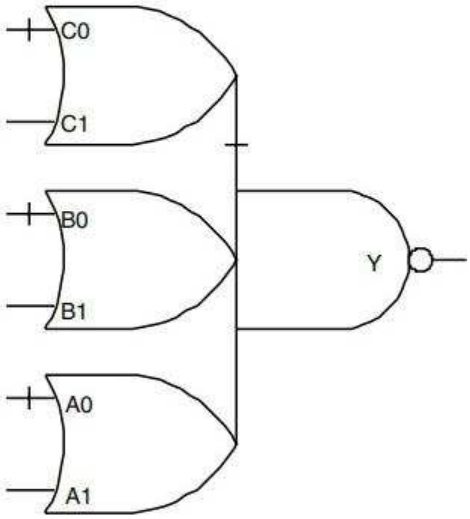
Cell Name	When	Power(pJ)		
		min	avg	max
OAI221X4H7R	(A0 * !B0 * !B1 * Y)	0.00054	0.00055	0.00055
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * !B0 * !B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * Y)	0.00054	0.00055	0.00055
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !B0 * !B1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * B0 * Y)	0.00055	0.00055	0.00055
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * B1 * Y)	0.00054	0.00055	0.00055
	(!A0 * !A1 * !B0 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * B1 * Y)	-0.00014	-0.00014	-0.00014

OAI222X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X0P5H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X0P5H7R	0.00061	0.00068	0.00072	0.00069	0.00064	0.00074	0.02015

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X0P5H7R	0.00000	0.12464	0.29244

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X0P5H7R	A0->Y (FR)	0.05829	0.20762	0.63881
	A1->Y (FR)	0.05671	0.20939	0.65740
	B0->Y (FR)	0.04964	0.19730	0.63061
	B1->Y (FR)	0.04837	0.19892	0.64843
	C0->Y (FR)	0.03839	0.18384	0.61832
	C1->Y (FR)	0.03742	0.18577	0.63752

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X0P5H7R	A0->Y (RF)	0.05765	0.19368	0.58080
	A1->Y (RF)	0.05527	0.19038	0.57776
	B0->Y (RF)	0.05495	0.19548	0.61596
	B1->Y (RF)	0.05104	0.19057	0.61163
	C0->Y (RF)	0.04219	0.18040	0.60262
	C1->Y (RF)	0.04074	0.17758	0.59962

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X0P5H7R	A0	0.00172	0.00176	0.00190
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00018	0.00018	0.00018
	A0	0.00001	0.00004	0.00018
	A1	0.00161	0.00166	0.00188
	A1	-0.00007	-0.00007	-0.00006
	A1	0.00018	0.00018	0.00018
	A1	0.00006	0.00010	0.00032
	B0	0.00151	0.00154	0.00168
	B0	-0.00011	-0.00011	-0.00010
	B0	0.00010	0.00010	0.00012
	B0	0.00002	0.00006	0.00020
	B1	0.00136	0.00142	0.00165
	B1	-0.00007	-0.00007	-0.00006
	B1	0.00011	0.00011	0.00012
	B1	0.00006	0.00012	0.00036
	C0	0.00118	0.00122	0.00140
	C0	-0.00011	-0.00011	-0.00011
	C0	0.00003	0.00004	0.00005
	C0	-0.00002	0.00003	0.00023
	C1	0.00109	0.00114	0.00139
	C1	-0.00007	-0.00007	-0.00007
	C1	0.00003	0.00003	0.00004
	C1	0.00000	0.00007	0.00035

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X0P5H7R	A0	-0.00007	-0.00005	0.00002
	A0	0.00019	0.00020	0.00020
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00169	0.00171	0.00177
	A1	-0.00008	-0.00005	0.00003
	A1	0.00015	0.00015	0.00016
	A1	-0.00018	-0.00017	-0.00017
	A1	0.00155	0.00157	0.00163
	B0	-0.00008	-0.00005	0.00006
	B0	0.00019	0.00020	0.00020
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00139	0.00142	0.00150
	B1	-0.00007	-0.00004	0.00009
	B1	0.00015	0.00015	0.00015
	B1	-0.00010	-0.00010	-0.00010
	B1	0.00123	0.00126	0.00135
	C0	-0.00007	-0.00002	0.00023
	C0	0.00019	0.00020	0.00020
	C0	-0.00004	-0.00003	-0.00002
	C0	0.00104	0.00112	0.00133
	C1	-0.00007	-0.00002	0.00024
	C1	0.00015	0.00015	0.00015
	C1	-0.00004	-0.00003	-0.00001
	C1	0.00096	0.00101	0.00122

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7R	**(A1 * B1 * C1 * !Y)**	-0.00008	-0.00007	-0.00006
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C1 * !Y)	0.00024	0.00024	0.00024
	(A1 * B1 * C0 * !C1 * !Y)	-0.00008	-0.00007	-0.00006
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00023	0.00024	0.00024
	(A1 * B0 * !B1 * C1 * !Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00024	0.00024	0.00024
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !B1 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00024	0.00024	0.00024
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7R	**(A1 * B1 * C1 * !Y)**	0.00008	0.00008	0.00008
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * B1 * C0 * !C1 * !Y)	0.00008	0.00008	0.00008
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00024	-0.00023	-0.00023
	(A1 * B0 * !B1 * C1 * !Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A1 * !B0 * !B1 * Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00024	-0.00024	-0.00023
	(!A1 * B1 * !C0 * !C1 * Y)	0.00009	0.00010	0.00010
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00021	-0.00019	-0.00017
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00009	0.00010	0.00010
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00021	-0.00019	-0.00017
	(!A1 * !B0 * !B1 * C1 * Y)	0.00009	0.00010	0.00010
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00021	-0.00020	-0.00018
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00009	0.00010	0.00010
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00021	-0.00020	-0.00018
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00009	0.00010	0.00010
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00021	-0.00020	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7R	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00023	0.00024	0.00024
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * B1 * !C0 * !C1 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * !B1 * C1 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	0.00015	0.00016	0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00015	0.00016	0.00016

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7R	**(A0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * B1 * !C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00023
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !B0 * !B1 * C1 * Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B1 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00014	-0.00012
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00014	-0.00012
	(!A0 * !B0 * !B1 * C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00016	-0.00015	-0.00013
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00016	-0.00015	-0.00013
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00012	0.00013	0.00013
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7R	**(A1 * B1 * C1 * !Y)**	-0.00008	-0.00007	-0.00006
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00027	0.00027	0.00028
	(A1 * B1 * C0 * !C1 * !Y)	-0.00008	-0.00007	-0.00006
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00027	0.00027	0.00028
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00012	-0.00012	-0.00011
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00022	0.00023	0.00023
	(A0 * !A1 * B1 * C1 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00027	0.00027	0.00028
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00008	-0.00007	-0.00006
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00027	0.00027	0.00028
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B1 * C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00014	-0.00013	-0.00012
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7R	**(A1 * B1 * C1 * !Y)**	0.00008	0.00008	0.00008
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * B1 * C0 * !C1 * !Y)	0.00008	0.00008	0.00008
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00015
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00021	-0.00020	-0.00018
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * !A1 * B1 * C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00015
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00021	-0.00020	-0.00017
	(!A0 * !A1 * B1 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7R	**(A1 * B0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C1 * !Y)	0.00024	0.00024	0.00024
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A1 * B0 * !C0 * !C1 * Y)	-0.00012	-0.00012	-0.00011
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * Y)	0.00017	0.00018	0.00018
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00012	-0.00012	-0.00011
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * Y)	0.00002	0.00003	0.00002
	(!A0 * !A1 * B0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00004	0.00003	0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00004	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7R	**(A1 * B0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * !C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00017
	(A1 * !B0 * !C0 * !C1 * Y)	0.00014	0.00014	0.00015
	(A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00013
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00014	0.00014	0.00015
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00013
	(!A0 * !A1 * B0 * C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * Y)	-0.00002	-0.00003	-0.00002
	(!A0 * !A1 * B0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00004	-0.00003	-0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00004

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7R	**(A1 * B1 * C1 * !Y)**	-0.00008	-0.00008	-0.00007
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00023	0.00023	0.00023
	(A1 * B0 * !B1 * C1 * !Y)	-0.00008	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * !B1 * C1 * Y)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00015	-0.00014	-0.00013
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * C1 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00015	-0.00014	-0.00013
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7R	**(A1 * B1 * C1 * !Y)**	0.00008	0.00009	0.00009
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * B0 * !B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A1 * !B0 * !B1 * C1 * Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(A1 * !B0 * !B1 * !C1 * Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(A0 * !A1 * B1 * C1 * !Y)	0.00008	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00023	-0.00022	-0.00022
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00008	0.00009	0.00009
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * !B1 * C1 * Y)	0.00015	0.00015	0.00015
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P5H7R	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00026	0.00027	0.00027
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00026	0.00027	0.00027
	(A1 * !B0 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00004	0.00005	0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00026	0.00027	0.00027
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00026	0.00027	0.00027
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00004	0.00005	0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

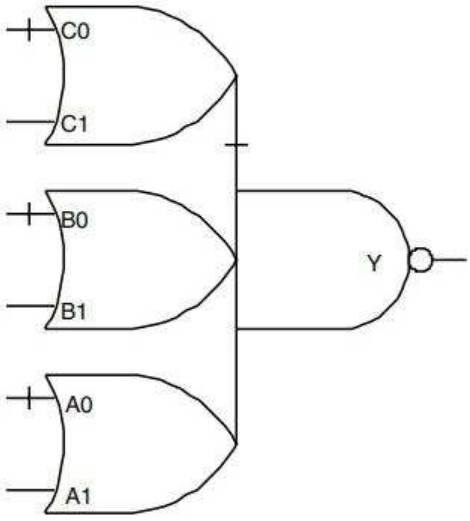
OAI222X0P5H7R	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A1 * !B0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * !C0 * Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004

OAI222X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X0P7H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X0P7H7R	0.00065	0.00076	0.00072	0.00076	0.00069	0.00084	0.02284

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X0P7H7R	0.00000	0.14029	0.32991

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X0P7H7R	A0->Y (FR)	0.05479	0.20530	0.64028
	A1->Y (FR)	0.05516	0.20843	0.65914
	B0->Y (FR)	0.04916	0.19732	0.63237
	B1->Y (FR)	0.04674	0.19802	0.65013
	C0->Y (FR)	0.03628	0.18227	0.62006
	C1->Y (FR)	0.03526	0.18404	0.63867

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X0P7H7R	A0->Y (RF)	0.05558	0.19150	0.57996
	A1->Y (RF)	0.05395	0.18893	0.57795
	B0->Y (RF)	0.05224	0.19313	0.61411
	B1->Y (RF)	0.04900	0.18891	0.61078
	C0->Y (RF)	0.04012	0.17807	0.59930
	C1->Y (RF)	0.03836	0.17515	0.59780

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X0P7H7R	A0	0.00190	0.00194	0.00210
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00020	0.00021	0.00021
	A0	0.00005	0.00008	0.00023
	A1	0.00178	0.00185	0.00209
	A1	-0.00008	-0.00008	-0.00007
	A1	0.00020	0.00021	0.00021
	A1	0.00009	0.00014	0.00037
	B0	0.00166	0.00170	0.00186
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00012	0.00013	0.00013
	B0	0.00006	0.00010	0.00026
	B1	0.00152	0.00158	0.00183
	B1	-0.00008	-0.00008	-0.00007
	B1	0.00012	0.00013	0.00013
	B1	0.00010	0.00015	0.00041
	C0	0.00129	0.00133	0.00153
	C0	-0.00013	-0.00013	-0.00012
	C0	0.00003	0.00004	0.00005
	C0	-0.00005	-0.00000	0.00022
	C1	0.00118	0.00124	0.00153
	C1	-0.00008	-0.00008	-0.00008
	C1	0.00003	0.00004	0.00005
	C1	-0.00001	0.00006	0.00038

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X0P7H7R	A0	-0.00007	-0.00005	0.00002
	A0	0.00022	0.00023	0.00023
	A0	-0.00019	-0.00019	-0.00019
	A0	0.00182	0.00185	0.00191
	A1	-0.00009	-0.00005	0.00002
	A1	0.00018	0.00018	0.00018
	A1	-0.00019	-0.00019	-0.00019
	A1	0.00169	0.00172	0.00177
	B0	-0.00008	-0.00006	0.00007
	B0	0.00022	0.00023	0.00023
	B0	-0.00012	-0.00012	-0.00012
	B0	0.00151	0.00153	0.00163
	B1	-0.00008	-0.00005	0.00010
	B1	0.00018	0.00018	0.00018
	B1	-0.00012	-0.00012	-0.00012
	B1	0.00136	0.00139	0.00149
	C0	-0.00008	-0.00003	0.00026
	C0	0.00022	0.00022	0.00023
	C0	-0.00004	-0.00004	-0.00003
	C0	0.00120	0.00125	0.00149
	C1	-0.00008	-0.00002	0.00029
	C1	0.00017	0.00018	0.00018
	C1	-0.00004	-0.00004	-0.00003
	C1	0.00108	0.00112	0.00136

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7R	**(A1 * B1 * C1 * !Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00025	0.00026	0.00026
	(A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00025	0.00026	0.00026
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00025	0.00025	0.00025
	(A1 * B0 * !B1 * C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00025	0.00026	0.00026
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00025	0.00026	0.00026
	(A1 * !B0 * !B1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00011	-0.00011	-0.00010
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00011	-0.00011	-0.00010
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7R	**(A1 * B1 * C1 * !Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C1 * !Y)	-0.00026	-0.00025	-0.00025
	(A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * B1 * !C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00023	-0.00022	-0.00019
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00023	-0.00022	-0.00020
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7R	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * B1 * C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00021
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * !B1 * C1 * Y)	-0.00014	-0.00013	-0.00012
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C1 * Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00020	0.00020	0.00021
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00013	-0.00012
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00021
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7R	**(A0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * B1 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00021	-0.00020	-0.00020
	(A0 * !B0 * !B1 * C1 * Y)	0.00013	0.00013	0.00014
	(A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C1 * Y)	-0.00021	-0.00020	-0.00020
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00021	-0.00020	-0.00020
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00013	0.00013	0.00014
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00018	-0.00016	-0.00015
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00016	-0.00014
	(!A0 * !B0 * !B1 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7R	**(A1 * B1 * C1 * !Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C1 * !Y)	0.00026	0.00026	0.00027
	(A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !C1 * !Y)	0.00026	0.00026	0.00027
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00013
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00012	-0.00012	-0.00011
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(A0 * !A1 * B1 * C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00026	0.00026	0.00027
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00013
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B1 * C1 * Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7R	**(A1 * B1 * C1 * !Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00021	-0.00020	-0.00018
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00023	-0.00023	-0.00022
	(A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00026	-0.00026	-0.00025
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !A1 * B1 * C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7R	**(A1 * B0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A1 * B0 * !C0 * !C1 * Y)	-0.00012	-0.00012	-0.00010
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00001	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00012	-0.00012	-0.00011
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00018	0.00018	0.00019
	(!A0 * !A1 * B0 * C1 * Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00013	-0.00012	-0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C1 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7R	**(A1 * B0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * !C0 * !C1 * Y)	0.00014	0.00014	0.00015
	(A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00018	-0.00017	-0.00015
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00014	0.00014	0.00015
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !A1 * B0 * C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7R	**(A1 * B1 * C1 * !Y)**	-0.00009	-0.00008	-0.00007
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C1 * !Y)	0.00027	0.00027	0.00028
	(A1 * B0 * !B1 * C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	0.00027	0.00027	0.00028
	(A1 * !B0 * !B1 * C1 * Y)	-0.00017	-0.00016	-0.00015
	(A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00011	0.00011
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C1 * !Y)	0.00027	0.00027	0.00028
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00027	0.00027	0.00028
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00011	0.00011
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * B1 * C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00009	0.00010	0.00010

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7R	**(A1 * B1 * C1 * !Y)**	0.00009	0.00009	0.00009
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * C1 * Y)	0.00017	0.00017	0.00017
	(A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A1 * B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !B1 * C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00011	-0.00011	-0.00010
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * B1 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X0P7H7R	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B1 * C0 * !Y)	0.00029	0.00030	0.00030
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * !Y)	0.00029	0.00030	0.00030
	(A1 * !B0 * !B1 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00029	0.00029	0.00030
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00029	0.00029	0.00030
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00024	-0.00023	-0.00023
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

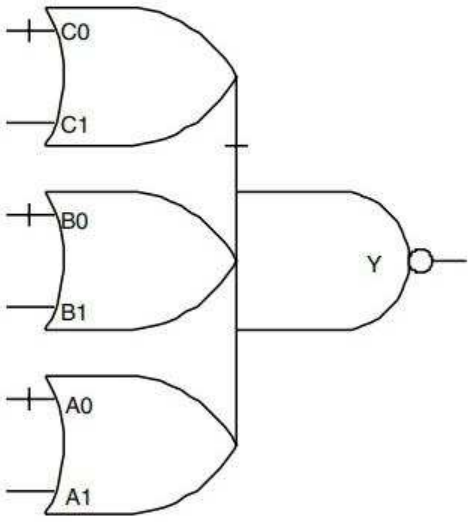
OAI222X0P7H7R	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !Y)	-0.00030	-0.00030	-0.00029
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00030	-0.00030	-0.00029
	(A1 * !B0 * !B1 * C0 * Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00030	-0.00029	-0.00029
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00030	-0.00029	-0.00029
	(!A1 * !B0 * !B1 * C0 * Y)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B1 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

OAI222X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X1H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X1H7R	0.00071	0.00079	0.00080	0.00080	0.00077	0.00085	0.02738

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X1H7R	0.00000	0.16316	0.38133

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X1H7R	A0->Y (FR)	0.04662	0.19888	0.64121
	A1->Y (FR)	0.04567	0.20049	0.65825
	B0->Y (FR)	0.04191	0.19144	0.63391
	B1->Y (FR)	0.04086	0.19263	0.65038
	C0->Y (FR)	0.03324	0.18055	0.62409
	C1->Y (FR)	0.03153	0.18122	0.64116

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X1H7R	A0->Y (RF)	0.05115	0.18981	0.58714
	A1->Y (RF)	0.04848	0.18618	0.58426
	B0->Y (RF)	0.04813	0.19157	0.62162
	B1->Y (RF)	0.04453	0.18695	0.61786
	C0->Y (RF)	0.03804	0.17880	0.60892
	C1->Y (RF)	0.03570	0.17517	0.60640

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X1H7R	A0	0.00207	0.00212	0.00230
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00024	0.00024	0.00024
	A0	-0.00002	0.00002	0.00019
	A1	0.00188	0.00198	0.00227
	A1	-0.00010	-0.00010	-0.00009
	A1	0.00024	0.00024	0.00024
	A1	0.00003	0.00008	0.00037
	B0	0.00179	0.00185	0.00203
	B0	-0.00016	-0.00015	-0.00015
	B0	0.00014	0.00015	0.00015
	B0	0.00000	0.00005	0.00024
	B1	0.00160	0.00170	0.00200
	B1	-0.00010	-0.00010	-0.00009
	B1	0.00014	0.00015	0.00015
	B1	0.00005	0.00012	0.00043
	C0	0.00147	0.00152	0.00175
	C0	-0.00016	-0.00015	-0.00015
	C0	0.00003	0.00005	0.00006
	C0	-0.00003	0.00003	0.00029
	C1	0.00132	0.00139	0.00174
	C1	-0.00010	-0.00010	-0.00009
	C1	0.00002	0.00005	0.00008
	C1	0.00000	0.00008	0.00046

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X1H7R	A0	-0.00009	-0.00007	0.00004
	A0	0.00027	0.00027	0.00027
	A0	-0.00023	-0.00023	-0.00022
	A0	0.00204	0.00207	0.00216
	A1	-0.00010	-0.00006	0.00006
	A1	0.00021	0.00021	0.00022
	A1	-0.00023	-0.00023	-0.00022
	A1	0.00187	0.00190	0.00199
	B0	-0.00010	-0.00007	0.00009
	B0	0.00027	0.00027	0.00028
	B0	-0.00014	-0.00014	-0.00013
	B0	0.00168	0.00171	0.00183
	B1	-0.00009	-0.00005	0.00014
	B1	0.00021	0.00021	0.00022
	B1	-0.00014	-0.00014	-0.00014
	B1	0.00149	0.00153	0.00166
	C0	-0.00009	-0.00003	0.00031
	C0	0.00027	0.00027	0.00027
	C0	-0.00005	-0.00005	-0.00003
	C0	0.00130	0.00138	0.00166
	C1	-0.00010	-0.00003	0.00034
	C1	0.00021	0.00021	0.00022
	C1	-0.00006	-0.00005	0.00000
	C1	0.00115	0.00123	0.00152

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7R	**(A1 * B1 * C1 * !Y)**	-0.00011	-0.00010	-0.00009
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00026	0.00026	0.00027
	(A1 * B1 * C0 * !C1 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00026	0.00026	0.00027
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A1 * B0 * !B1 * C1 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00026	0.00026	0.00027
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !B1 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00026	0.00026	0.00026
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00023	0.00024	0.00024
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7R	**(A1 * B1 * C1 * !Y)**	0.00011	0.00011	0.00011
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B1 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * B1 * C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * B1 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00023	-0.00021	-0.00018
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00023	-0.00021	-0.00019
	(!A1 * !B0 * !B1 * C1 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00023	-0.00022	-0.00019
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00023	-0.00022	-0.00019
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7R	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C1 * !Y)	0.00027	0.00028	0.00028
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C0 * !C1 * !Y)	0.00028	0.00028	0.00028
	(A0 * B1 * !C0 * !C1 * Y)	-0.00014	-0.00013	-0.00011
	(A0 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * C1 * !Y)	0.00027	0.00028	0.00028
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00027	0.00028	0.00028
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00013	-0.00011
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * !B1 * C1 * Y)	-0.00014	-0.00013	-0.00011
	(A0 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00014	-0.00013	-0.00011
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00013	-0.00011
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7R	**(A0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * B1 * !C0 * !C1 * Y)	0.00013	0.00014	0.00014
	(A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00013	0.00014	0.00014
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * !B1 * C1 * Y)	0.00013	0.00014	0.00014
	(A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00013	0.00014	0.00014
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00013	0.00014	0.00014
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00018	-0.00016	-0.00014
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00002	-0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00016	-0.00014
	(!A0 * !B0 * !B1 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00017	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7R	**(A1 * B1 * C1 * !Y)**	-0.00011	-0.00010	-0.00009
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00030	0.00030	0.00030
	(A1 * B1 * C0 * !C1 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00030	0.00030	0.00030
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00015	-0.00014	-0.00013
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00025	0.00025	0.00026
	(A0 * !A1 * B1 * C1 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00030	0.00030	0.00030
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C1 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00014
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C1 * Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7R	**(A1 * B1 * C1 * !Y)**	0.00011	0.00011	0.00011
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A1 * B1 * C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00018
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00024	-0.00022	-0.00021
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00024	-0.00022	-0.00020
	(!A0 * !A1 * B1 * C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B1 * C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7R	**(A1 * B0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C1 * !Y)	0.00029	0.00029	0.00029
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * !Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !C0 * !C1 * Y)	-0.00015	-0.00014	-0.00013
	(A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * C1 * !Y)	0.00029	0.00029	0.00029
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00029	0.00029	0.00029
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00015	-0.00014	-0.00013
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * C1 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00017	-0.00016	-0.00014
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7R	**(A1 * B0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !C0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !C0 * !C1 * Y)	0.00017	0.00018	0.00018
	(A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00016
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00017	0.00018	0.00018
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !A1 * B0 * C1 * Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * B0 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00016	0.00017	0.00017
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00004	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00018	0.00019	0.00019
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7R	**(A1 * B1 * C1 * !Y)**	-0.00011	-0.00010	-0.00009
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00027	0.00027	0.00028
	(A1 * B0 * !B1 * C1 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00027	0.00027	0.00028
	(A1 * !B0 * !B1 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00021	-0.00020	-0.00020
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * C1 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7R	**(A1 * B1 * C1 * !Y)**	0.00011	0.00011	0.00011
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00027	-0.00027	-0.00026
	(A1 * B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * C1 * Y)	0.00019	0.00019	0.00019
	(A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00027	-0.00027	-0.00026
	(!A1 * !B0 * !B1 * C1 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00020	0.00021	0.00021
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1H7R	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(A1 * !B0 * !B1 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00024	-0.00022	-0.00021
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00026	-0.00025	-0.00025
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B1 * C0 * Y)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00024	-0.00022	-0.00021
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00026	-0.00025	-0.00025
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

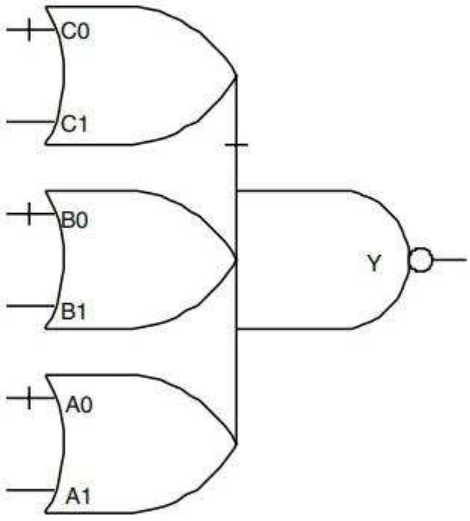
OAI222X1H7R	**(A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !B1 * C0 * Y)	0.00023	0.00023	0.00024
	(A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	0.00025	0.00025	0.00026
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * !B1 * C0 * Y)	0.00023	0.00023	0.00024
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00025	0.00025	0.00026
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00025	0.00025	0.00026
	(!A0 * !A1 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00025	0.00025	0.00026
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

OAI222X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X1P4H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X1P4H7R	0.00075	0.00086	0.00084	0.00086	0.00081	0.00097	0.03121

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X1P4H7R	0.00000	0.18513	0.43236

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X1P4H7R	A0->Y (FR)	0.04723	0.19930	0.64162
	A1->Y (FR)	0.04694	0.20131	0.65916
	B0->Y (FR)	0.04200	0.19174	0.63547
	B1->Y (FR)	0.03936	0.19151	0.65091
	C0->Y (FR)	0.03080	0.17828	0.62409
	C1->Y (FR)	0.02938	0.17908	0.64171

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X1P4H7R	A0->Y (RF)	0.04962	0.18761	0.58457
	A1->Y (RF)	0.04728	0.18437	0.58271
	B0->Y (RF)	0.04628	0.18952	0.61947
	B1->Y (RF)	0.04285	0.18501	0.61658
	C0->Y (RF)	0.03579	0.17601	0.60642
	C1->Y (RF)	0.03368	0.17261	0.60376

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X1P4H7R	A0	0.00231	0.00237	0.00258
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00028	0.00028	0.00028
	A0	0.00004	0.00008	0.00028
	A1	0.00213	0.00223	0.00255
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00028	0.00028	0.00028
	A1	0.00008	0.00014	0.00046
	B0	0.00203	0.00208	0.00228
	B0	-0.00018	-0.00018	-0.00018
	B0	0.00017	0.00017	0.00017
	B0	0.00005	0.00010	0.00031
	B1	0.00183	0.00190	0.00224
	B1	-0.00011	-0.00011	-0.00011
	B1	0.00017	0.00017	0.00017
	B1	0.00009	0.00016	0.00052
	C0	0.00158	0.00164	0.00192
	C0	-0.00018	-0.00018	-0.00018
	C0	0.00004	0.00006	0.00007
	C0	-0.00007	-0.00000	0.00031
	C1	0.00142	0.00150	0.00191
	C1	-0.00011	-0.00011	-0.00010
	C1	0.00005	0.00006	0.00008
	C1	-0.00003	0.00006	0.00051

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X1P4H7R	A0	-0.00010	-0.00008	0.00003
	A0	0.00031	0.00032	0.00032
	A0	-0.00026	-0.00026	-0.00026
	A0	0.00221	0.00225	0.00234
	A1	-0.00011	-0.00007	0.00006
	A1	0.00025	0.00025	0.00025
	A1	-0.00026	-0.00026	-0.00026
	A1	0.00205	0.00209	0.00218
	B0	-0.00011	-0.00007	0.00010
	B0	0.00031	0.00032	0.00032
	B0	-0.00017	-0.00016	-0.00015
	B0	0.00182	0.00188	0.00201
	B1	-0.00011	-0.00006	0.00015
	B1	0.00025	0.00025	0.00025
	B1	-0.00016	-0.00016	-0.00013
	B1	0.00164	0.00168	0.00182
	C0	-0.00010	-0.00004	0.00036
	C0	0.00031	0.00032	0.00032
	C0	-0.00006	-0.00006	-0.00004
	C0	0.00145	0.00153	0.00185
	C1	-0.00010	-0.00002	0.00041
	C1	0.00025	0.00025	0.00025
	C1	-0.00006	-0.00005	-0.00004
	C1	0.00127	0.00136	0.00170

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7R	**(A1 * B1 * C1 * !Y)**	-0.00012	-0.00011	-0.00010
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00027	0.00028	0.00028
	(A1 * B1 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00027	0.00028	0.00029
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(A1 * B0 * !B1 * C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00027	0.00028	0.00028
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00027	0.00028	0.00029
	(A1 * !B0 * !B1 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00027	0.00027	0.00027
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	0.00024	0.00025	0.00025
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00024	0.00025	0.00025
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7R	**(A1 * B1 * C1 * !Y)**	0.00013	0.00013	0.00013
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B1 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * B1 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00012	0.00012	0.00012
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !B1 * C1 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00025	-0.00023	-0.00021
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00015
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00025	-0.00023	-0.00021
	(!A1 * !B0 * !B1 * C1 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00025	-0.00024	-0.00021
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00000	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00025	-0.00023	-0.00022
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00025	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7R	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C1 * !Y)	0.00031	0.00031	0.00031
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * C0 * !C1 * !Y)	0.00031	0.00031	0.00031
	(A0 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00013
	(A0 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * C1 * !Y)	0.00031	0.00031	0.00031
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00031	0.00031	0.00031
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00013
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * C1 * Y)	-0.00016	-0.00015	-0.00013
	(A0 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00016	-0.00015	-0.00013
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00013
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * B1 * !C0 * !C1 * Y)	0.00020	0.00021	0.00021
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7R	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00016
	(A0 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00031	-0.00031	-0.00031
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00016
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !B1 * C1 * Y)	0.00015	0.00015	0.00016
	(A0 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * C1 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00015	0.00015	0.00016
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00024	-0.00024	-0.00023
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00016
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00021	-0.00019	-0.00016
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00021	-0.00019	-0.00017
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00021	-0.00019	-0.00018
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7R	**(A1 * B1 * C1 * !Y)**	-0.00012	-0.00011	-0.00010
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00029	0.00029	0.00030
	(A1 * B1 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00029	0.00029	0.00030
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00015	-0.00014	-0.00013
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B1 * C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00029	0.00029	0.00029
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00029	0.00029	0.00029
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C1 * Y)	-0.00015	-0.00015	-0.00013
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00015	-0.00015	-0.00013
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7R	**(A1 * B1 * C1 * !Y)**	0.00012	0.00013	0.00013
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00029	-0.00028	-0.00028
	(A1 * B1 * C0 * !C1 * !Y)	0.00012	0.00013	0.00013
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00029	-0.00028	-0.00028
	(A1 * !B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00018
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00024	-0.00023	-0.00020
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B1 * C1 * !Y)	0.00013	0.00013	0.00013
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00013	0.00013	0.00013
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00018
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00024	-0.00022	-0.00020
	(!A0 * !A1 * B1 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B1 * C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7R	**(A1 * B0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C1 * !Y)	0.00029	0.00029	0.00029
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * !Y)	0.00029	0.00029	0.00029
	(A1 * B0 * !C0 * !C1 * Y)	-0.00015	-0.00014	-0.00013
	(A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00017
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * C1 * !Y)	0.00029	0.00029	0.00029
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00029	0.00029	0.00029
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00015	-0.00014	-0.00013
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * B0 * C1 * Y)	-0.00016	-0.00015	-0.00013
	(!A0 * !A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00016	-0.00015	-0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00016	-0.00015	-0.00014
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00005	0.00006	0.00006

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7R	**(A1 * B0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !C0 * !C1 * Y)	0.00018	0.00018	0.00019
	(A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00020	-0.00019	-0.00016
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00018	0.00018	0.00019
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00020	-0.00018	-0.00016
	(!A0 * !A1 * B0 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7R	**(A1 * B1 * C1 * !Y)**	-0.00012	-0.00011	-0.00010
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00029	0.00030	0.00031
	(A1 * B0 * !B1 * C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00029	0.00030	0.00030
	(A1 * !B0 * !B1 * C1 * Y)	-0.00021	-0.00020	-0.00019
	(A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00023	-0.00022	-0.00022
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00029	0.00030	0.00030
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00029	0.00030	0.00030
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00021	-0.00020	-0.00019
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00023	-0.00022	-0.00022
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * C1 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7R	**(A1 * B1 * C1 * !Y)**	0.00013	0.00013	0.00013
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00030	-0.00029	-0.00029
	(A1 * B0 * !B1 * C1 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00030	-0.00029	-0.00029
	(A1 * !B0 * !B1 * C1 * Y)	0.00021	0.00021	0.00021
	(A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B1 * C1 * !Y)	0.00013	0.00013	0.00013
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C1 * !Y)	-0.00030	-0.00029	-0.00029
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00012	0.00013	0.00013
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00030	-0.00029	-0.00029
	(!A1 * !B0 * !B1 * C1 * Y)	0.00021	0.00021	0.00021
	(!A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00022	0.00023	0.00023
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00022	0.00023	0.00023
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X1P4H7R	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !Y)	0.00033	0.00034	0.00034
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * !B1 * C0 * Y)	-0.00027	-0.00025	-0.00024
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !Y)	0.00034	0.00034	0.00034
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00033	0.00034	0.00034
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00026	-0.00025	-0.00024
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00000	0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00006
	(!A0 * !A1 * B1 * C0 * Y)	-0.00027	-0.00025	-0.00024
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00026	-0.00025	-0.00024
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00001	-0.00000	0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

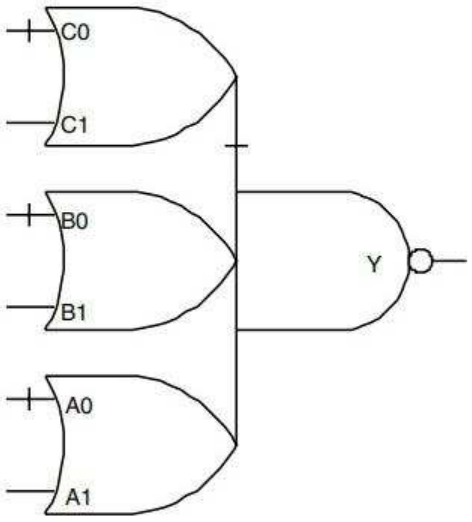
OAI222X1P4H7R	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !Y)	-0.00034	-0.00034	-0.00033
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00034	-0.00034	-0.00034
	(A1 * !B0 * !B1 * C0 * Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	0.00028	0.00028	0.00029
	(A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00034	-0.00034	-0.00033
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00034	-0.00034	-0.00033
	(!A1 * !B0 * !B1 * C0 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * Y)	0.00026	0.00026	0.00027
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00028	0.00028	0.00029
	(!A0 * !A1 * B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00002	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00028	0.00028	0.00028
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00002	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00005	-0.00005	-0.00005

OAI222X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X2H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X2H7R	0.00083	0.00095	0.00093	0.00095	0.00093	0.00103	0.03679

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X2H7R	0.00000	0.21886	0.51280

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X2H7R	A0->Y (FR)	0.04555	0.19817	0.64402
	A1->Y (FR)	0.04407	0.19897	0.65909
	B0->Y (FR)	0.03751	0.18825	0.63649
	B1->Y (FR)	0.03476	0.18784	0.65149
	C0->Y (FR)	0.02894	0.17713	0.62662
	C1->Y (FR)	0.02700	0.17727	0.64304

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X2H7R	A0->Y (RF)	0.04625	0.18218	0.57532
	A1->Y (RF)	0.04373	0.17872	0.57235
	B0->Y (RF)	0.04299	0.18428	0.61178
	B1->Y (RF)	0.03951	0.17966	0.60840
	C0->Y (RF)	0.03375	0.17200	0.59806
	C1->Y (RF)	0.03120	0.16813	0.59626

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X2H7R	A0	0.00261	0.00269	0.00293
	A0	-0.00022	-0.00022	-0.00021
	A0	0.00033	0.00034	0.00034
	A0	0.00001	0.00005	0.00029
	A1	0.00239	0.00251	0.00290
	A1	-0.00014	-0.00014	-0.00013
	A1	0.00033	0.00034	0.00034
	A1	0.00005	0.00012	0.00051
	B0	0.00226	0.00234	0.00259
	B0	-0.00022	-0.00022	-0.00020
	B0	0.00020	0.00021	0.00023
	B0	0.00002	0.00007	0.00033
	B1	0.00205	0.00213	0.00255
	B1	-0.00014	-0.00014	-0.00013
	B1	0.00020	0.00021	0.00022
	B1	0.00005	0.00014	0.00056
	C0	0.00181	0.00188	0.00221
	C0	-0.00022	-0.00022	-0.00021
	C0	0.00006	0.00007	0.00014
	C0	-0.00010	-0.00002	0.00036
	C1	0.00161	0.00170	0.00219
	C1	-0.00014	-0.00013	-0.00013
	C1	0.00005	0.00007	0.00009
	C1	-0.00004	0.00007	0.00061

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X2H7R	A0	-0.00012	-0.00009	0.00005
	A0	0.00038	0.00038	0.00038
	A0	-0.00032	-0.00032	-0.00031
	A0	0.00252	0.00258	0.00269
	A1	-0.00013	-0.00008	0.00009
	A1	0.00030	0.00030	0.00030
	A1	-0.00032	-0.00032	-0.00031
	A1	0.00233	0.00238	0.00250
	B0	-0.00013	-0.00009	0.00013
	B0	0.00038	0.00038	0.00038
	B0	-0.00020	-0.00020	-0.00019
	B0	0.00207	0.00215	0.00231
	B1	-0.00013	-0.00007	0.00020
	B1	0.00030	0.00030	0.00030
	B1	-0.00020	-0.00019	-0.00018
	B1	0.00186	0.00192	0.00211
	C0	-0.00012	-0.00004	0.00042
	C0	0.00038	0.00038	0.00038
	C0	-0.00007	-0.00007	-0.00003
	C0	0.00166	0.00176	0.00214
	C1	-0.00012	-0.00002	0.00050
	C1	0.00028	0.00030	0.00030
	C1	-0.00007	-0.00007	-0.00005
	C1	0.00140	0.00154	0.00195

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7R	**(A1 * B1 * C1 * !Y)**	-0.00015	-0.00014	-0.00012
	(A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00029	0.00030	0.00031
	(A1 * B1 * C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00012
	(A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00029	0.00030	0.00031
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00015	-0.00014	-0.00012
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00029	0.00029	0.00030
	(A1 * B0 * !B1 * C1 * !Y)	-0.00015	-0.00014	-0.00012
	(A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !B1 * C1 * !Y)	0.00029	0.00030	0.00030
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00015	-0.00014	-0.00012
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00029	0.00030	0.00031
	(A1 * !B0 * !B1 * Y)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00029	0.00029	0.00029
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * B1 * !C0 * !C1 * Y)	0.00026	0.00027	0.00027
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00026	0.00027	0.00027
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00026	0.00026	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7R	**(A1 * B1 * C1 * !Y)**	0.00015	0.00015	0.00015
	(A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00014	0.00015	0.00015
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00029	-0.00029	-0.00029
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00030	-0.00029	-0.00029
	(A1 * !B0 * !B1 * Y)	0.00014	0.00015	0.00015
	(A1 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00029	-0.00029	-0.00029
	(!A1 * B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00026	-0.00025	-0.00022
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00026	-0.00025	-0.00022
	(!A1 * !B0 * !B1 * C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00027	-0.00025	-0.00023
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00027	-0.00025	-0.00023
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7R	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C1 * !Y)	0.00034	0.00034	0.00034
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !C1 * !Y)	0.00034	0.00034	0.00034
	(A0 * B1 * !C0 * !C1 * Y)	-0.00018	-0.00016	-0.00015
	(A0 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * C1 * !Y)	0.00034	0.00034	0.00034
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00034	0.00034	0.00034
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00017	-0.00015
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !B1 * C1 * Y)	-0.00018	-0.00016	-0.00015
	(A0 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00018	-0.00017	-0.00015
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00018	-0.00017	-0.00015
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B1 * !C0 * !C1 * Y)	0.00022	0.00023	0.00023
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * C1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00023	0.00023	0.00024
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7R	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C1 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !C1 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(A0 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C1 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !B1 * C1 * Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00021
	(!A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00022	-0.00020	-0.00017
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00021
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !B0 * !B1 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00023	-0.00021	-0.00019
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00022	-0.00021	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7R	**(A1 * B1 * C1 * !Y)**	-0.00015	-0.00013	-0.00012
	(A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00031	0.00031	0.00032
	(A1 * B1 * C0 * !C1 * !Y)	-0.00015	-0.00013	-0.00012
	(A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00031	0.00031	0.00032
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	0.00026	0.00026	0.00026
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00017	-0.00016	-0.00015
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00028	0.00028	0.00028
	(A0 * !A1 * B1 * C1 * !Y)	-0.00015	-0.00013	-0.00012
	(A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00031	0.00031	0.00032
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00015	-0.00013	-0.00012
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00031	0.00031	0.00032
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00019
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00025	0.00026	0.00026
	(!A0 * !A1 * B1 * C1 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00018	-0.00017	-0.00015
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7R	**(A1 * B1 * C1 * !Y)**	0.00015	0.00015	0.00015
	(A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00031	-0.00031	-0.00030
	(A1 * B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C0 * !C1 * !Y)	-0.00031	-0.00031	-0.00030
	(A1 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00021
	(A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00025	-0.00024	-0.00021
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00017	0.00017	0.00017
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00031	-0.00031	-0.00030
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00022
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00025	-0.00024	-0.00021
	(!A0 * !A1 * B1 * C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7R	**(A1 * B0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C1 * !Y)	0.00032	0.00032	0.00033
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * !Y)	0.00032	0.00032	0.00033
	(A1 * B0 * !C0 * !C1 * Y)	-0.00018	-0.00017	-0.00015
	(A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	0.00022	0.00022	0.00023
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C1 * !Y)	0.00032	0.00032	0.00033
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00032	0.00032	0.00033
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00018	-0.00017	-0.00015
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * B0 * C1 * Y)	-0.00019	-0.00017	-0.00016
	(!A0 * !A1 * B0 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00019	-0.00017	-0.00016
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00005	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7R	**(A1 * B0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C1 * !Y)	-0.00033	-0.00032	-0.00032
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !C1 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(A1 * B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !C0 * !C1 * Y)	0.00021	0.00021	0.00022
	(A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00022	-0.00020	-0.00018
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00033	-0.00032	-0.00032
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00021	0.00021	0.00022
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00022	-0.00020	-0.00018
	(!A0 * !A1 * B0 * C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B0 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7R	**(A1 * B1 * C1 * !Y)**	-0.00015	-0.00014	-0.00012
	(A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00033	0.00033	0.00034
	(A1 * B0 * !B1 * C1 * !Y)	-0.00015	-0.00013	-0.00012
	(A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00033	0.00033	0.00034
	(A1 * !B0 * !B1 * C1 * Y)	-0.00024	-0.00023	-0.00022
	(A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00027	-0.00026	-0.00026
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * C1 * !Y)	-0.00015	-0.00013	-0.00012
	(A0 * !A1 * B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00033	0.00033	0.00034
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00015	-0.00014	-0.00012
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00033	0.00033	0.00034
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00024	-0.00023	-0.00022
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * C1 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B1 * C1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00009	0.00010	0.00010

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7R	**(A1 * B1 * C1 * !Y)**	0.00015	0.00015	0.00015
	(A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * C1 * !Y)	-0.00033	-0.00033	-0.00033
	(A1 * B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00033	-0.00033	-0.00033
	(A1 * !B0 * !B1 * C1 * Y)	0.00024	0.00024	0.00025
	(A1 * !B0 * !B1 * C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(A1 * !B0 * !B1 * !C1 * Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00033	-0.00033	-0.00033
	(!A1 * !B0 * !B1 * C1 * Y)	0.00024	0.00024	0.00025
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00026	0.00026	0.00027
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C1 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * B1 * C1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C1 * Y)	0.00026	0.00026	0.00027
	(!A0 * !A1 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00024	0.00024	0.00025
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00026	0.00026	0.00027
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00010	-0.00010	-0.00009

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X2H7R	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !Y)	0.00035	0.00036	0.00036
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !Y)	0.00035	0.00036	0.00036
	(A1 * !B0 * !B1 * C0 * Y)	-0.00029	-0.00027	-0.00025
	(A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00031	-0.00031	-0.00030
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !Y)	0.00035	0.00036	0.00036
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00035	0.00036	0.00036
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00029	-0.00027	-0.00025
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00031	-0.00031	-0.00030
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * Y)	-0.00029	-0.00027	-0.00025
	(!A0 * !A1 * B1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00031	-0.00031	-0.00030
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00029	-0.00027	-0.00025
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

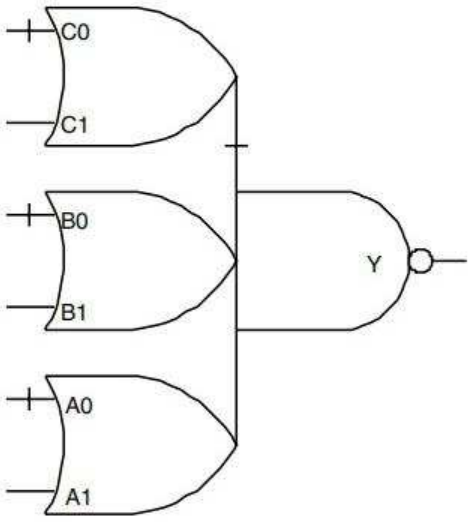
OAI222X2H7R	**(A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !Y)	-0.00036	-0.00036	-0.00035
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !Y)	-0.00036	-0.00036	-0.00035
	(A1 * !B0 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00036	-0.00036	-0.00035
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00036	-0.00036	-0.00035
	(!A1 * !B0 * !B1 * C0 * Y)	0.00029	0.00029	0.00029
	(!A1 * !B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C0 * Y)	0.00028	0.00029	0.00029
	(!A0 * !A1 * B1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00028	0.00029	0.00029
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00031	0.00031	0.00031
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004

OAI222X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X3H7R	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X3H7R	0.00153	0.00161	0.00155	0.00159	0.00156	0.00163	0.05652

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X3H7R	0.00000	0.34392	0.80636

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X3H7R	A0->Y (FR)	0.04742	0.19873	0.63902
	A1->Y (FR)	0.04239	0.19595	0.65387
	B0->Y (FR)	0.03979	0.18863	0.62995
	B1->Y (FR)	0.03607	0.18713	0.64610
	C0->Y (FR)	0.02958	0.17612	0.62023
	C1->Y (FR)	0.02585	0.17428	0.63580

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X3H7R	A0->Y (RF)	0.04999	0.18720	0.58108
	A1->Y (RF)	0.04553	0.18164	0.57605
	B0->Y (RF)	0.04590	0.18849	0.61597
	B1->Y (RF)	0.04242	0.18390	0.61284
	C0->Y (RF)	0.03616	0.17579	0.60327
	C1->Y (RF)	0.03197	0.17022	0.59836

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X3H7R	A0	0.00470	0.00480	0.00514
	A0	-0.00033	-0.00033	-0.00032
	A0	0.00051	0.00052	0.00052
	A0	0.00015	0.00021	0.00055
	A1	0.00412	0.00430	0.00493
	A1	-0.00020	-0.00020	-0.00020
	A1	0.00051	0.00052	0.00052
	A1	0.00009	0.00021	0.00082
	B0	0.00410	0.00419	0.00456
	B0	-0.00033	-0.00033	-0.00032
	B0	0.00031	0.00032	0.00032
	B0	0.00019	0.00027	0.00063
	B1	0.00356	0.00373	0.00439
	B1	-0.00022	-0.00022	-0.00019
	B1	0.00026	0.00031	0.00032
	B1	0.00012	0.00026	0.00091
	C0	0.00336	0.00347	0.00396
	C0	-0.00033	-0.00032	-0.00030
	C0	0.00010	0.00011	0.00013
	C0	0.00007	0.00018	0.00066
	C1	0.00286	0.00301	0.00380
	C1	-0.00021	-0.00020	-0.00020
	C1	0.00010	0.00010	0.00013
	C1	0.00004	0.00020	0.00096

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X3H7R	A0	-0.00003	0.00002	0.00020
	A0	0.00057	0.00057	0.00058
	A0	-0.00051	-0.00048	-0.00043
	A0	0.00436	0.00443	0.00457
	A1	-0.00005	0.00004	0.00029
	A1	0.00041	0.00045	0.00045
	A1	-0.00048	-0.00048	-0.00046
	A1	0.00400	0.00407	0.00425
	B0	-0.00005	0.00001	0.00031
	B0	0.00057	0.00057	0.00057
	B0	-0.00030	-0.00030	-0.00028
	B0	0.00361	0.00367	0.00392
	B1	-0.00004	0.00006	0.00043
	B1	0.00042	0.00045	0.00050
	B1	-0.00032	-0.00031	-0.00026
	B1	0.00335	0.00343	0.00370
	C0	-0.00001	0.00010	0.00077
	C0	0.00056	0.00057	0.00057
	C0	-0.00010	-0.00010	-0.00008
	C0	0.00289	0.00302	0.00360
	C1	-0.00003	0.00012	0.00088
	C1	0.00044	0.00045	0.00045
	C1	-0.00010	-0.00010	-0.00007
	C1	0.00255	0.00268	0.00332

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7R	**(A1 * B1 * C1 * !Y)**	-0.00027	-0.00024	-0.00019
	(A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00051	0.00052	0.00055
	(A1 * B1 * C0 * !C1 * !Y)	-0.00027	-0.00024	-0.00019
	(A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00051	0.00052	0.00054
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00027	-0.00025	-0.00021
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00050	0.00051	0.00051
	(A1 * B0 * !B1 * C1 * !Y)	-0.00027	-0.00024	-0.00019
	(A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * C1 * !Y)	-0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00051	0.00052	0.00056
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00027	-0.00024	-0.00019
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00051	0.00052	0.00054
	(A1 * !B0 * !B1 * Y)	-0.00027	-0.00025	-0.00021
	(A1 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00050	0.00051	0.00052
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * B1 * !C0 * !C1 * Y)	0.00043	0.00043	0.00043
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00043	0.00044	0.00044
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	0.00044	0.00044	0.00045
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00044	0.00044	0.00045
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00043	0.00043	0.00043

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7R	**(A1 * B1 * C1 * !Y)**	0.00027	0.00028	0.00028
	(A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	-0.00051	-0.00051	-0.00050
	(A1 * B1 * C0 * !C1 * !Y)	0.00027	0.00028	0.00028
	(A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00051	-0.00051	-0.00050
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00027	0.00027	0.00027
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00051	-0.00050	-0.00050
	(A1 * B0 * !B1 * C1 * !Y)	0.00028	0.00028	0.00028
	(A1 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00051	-0.00051	-0.00050
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00027	0.00028	0.00028
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00051	-0.00051	-0.00050
	(A1 * !B0 * !B1 * Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	-0.00050	-0.00050	-0.00050
	(!A1 * B1 * !C0 * !C1 * Y)	0.00034	0.00034	0.00035
	(!A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00043	-0.00040	-0.00035
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00034	0.00034	0.00035
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00043	-0.00040	-0.00036
	(!A1 * !B0 * !B1 * C1 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00044	-0.00041	-0.00037
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00003
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00044	-0.00041	-0.00036
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00034	0.00034	0.00034
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00043	-0.00041	-0.00036

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7R	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C1 * !Y)	0.00062	0.00063	0.00063
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C0 * !C1 * !Y)	0.00062	0.00063	0.00063
	(A0 * B1 * !C0 * !C1 * Y)	-0.00033	-0.00030	-0.00026
	(A0 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y)	0.00045	0.00045	0.00046
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * C1 * !Y)	0.00062	0.00063	0.00063
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00062	0.00062	0.00063
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00033	-0.00030	-0.00026
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00044	0.00045	0.00046
	(A0 * !B0 * !B1 * C1 * Y)	-0.00033	-0.00030	-0.00026
	(A0 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00044	0.00045	0.00045
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00033	-0.00030	-0.00026
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00045	0.00045	0.00046
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00033	-0.00031	-0.00027
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00044	0.00045	0.00046
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * B1 * !C0 * !C1 * Y)	0.00037	0.00038	0.00038
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00037	0.00038	0.00038
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * C1 * Y)	0.00039	0.00039	0.00039
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00039	0.00039	0.00039
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00039	-0.00039	-0.00039
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00038	0.00038	0.00038

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7R	**(A0 * B1 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C1 * !Y)	-0.00063	-0.00062	-0.00062
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !C1 * !Y)	-0.00063	-0.00062	-0.00062
	(A0 * B1 * !C0 * !C1 * Y)	0.00033	0.00033	0.00033
	(A0 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(A0 * B1 * !C0 * !C1 * Y)	-0.00045	-0.00044	-0.00044
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C1 * !Y)	-0.00063	-0.00062	-0.00062
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00063	-0.00062	-0.00061
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00033	0.00033	0.00033
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00045	-0.00044	-0.00044
	(A0 * !B0 * !B1 * C1 * Y)	0.00033	0.00033	0.00033
	(A0 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * Y)	-0.00045	-0.00044	-0.00044
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00033	0.00033	0.00033
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00045	-0.00044	-0.00044
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00033	0.00033	0.00033
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00045	-0.00045	-0.00044
	(!A0 * B1 * !C0 * !C1 * Y)	0.00039	0.00040	0.00040
	(!A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00037	-0.00034	-0.00030
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00039	0.00040	0.00040
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00038	-0.00034	-0.00030
	(!A0 * !B0 * !B1 * C1 * Y)	0.00039	0.00039	0.00039
	(!A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00038	-0.00035	-0.00031
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00039	0.00039	0.00039
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00038	-0.00035	-0.00031
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00039	0.00039	0.00039
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00038	-0.00035	-0.00031

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7R	**(A1 * B1 * C1 * !Y)**	-0.00025	-0.00022	-0.00018
	(A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00054	0.00055	0.00057
	(A1 * B1 * C0 * !C1 * !Y)	-0.00025	-0.00022	-0.00018
	(A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00054	0.00055	0.00057
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00035	-0.00035	-0.00034
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B1 * !C0 * !C1 * Y)	0.00044	0.00045	0.00045
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00030	-0.00028	-0.00025
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00049	0.00049	0.00050
	(A0 * !A1 * B1 * C1 * !Y)	-0.00025	-0.00022	-0.00018
	(A0 * !A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00054	0.00055	0.00056
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00025	-0.00022	-0.00018
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00054	0.00055	0.00056
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00035	-0.00035	-0.00035
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00044	0.00045	0.00045
	(!A0 * !A1 * B1 * C1 * Y)	-0.00032	-0.00030	-0.00026
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * C1 * Y)	0.00015	0.00016	0.00017
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00032	-0.00030	-0.00027
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00015	0.00016	0.00016
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00032	-0.00030	-0.00027
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00036	-0.00036	-0.00036
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * C1 * Y)	0.00014	0.00014	0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00036	-0.00036	-0.00036
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00037	-0.00037	-0.00037
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00011	0.00011	0.00011
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7R	**(A1 * B1 * C1 * !Y)**	0.00025	0.00025	0.00025
	(A1 * B1 * C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	-0.00054	-0.00053	-0.00053
	(A1 * B1 * C0 * !C1 * !Y)	0.00025	0.00025	0.00025
	(A1 * B1 * C0 * !C1 * !Y)	0.00002	0.00003	0.00003
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00054	-0.00053	-0.00053
	(A1 * !B1 * !C0 * !C1 * Y)	0.00035	0.00036	0.00037
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00044	-0.00042	-0.00038
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00029	0.00030	0.00030
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00049	-0.00049	-0.00048
	(A0 * !A1 * B1 * C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00054	-0.00054	-0.00053
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00054	-0.00053	-0.00053
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00035	0.00036	0.00037
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00044	-0.00041	-0.00036
	(!A0 * !A1 * B1 * C1 * Y)	0.00032	0.00032	0.00032
	(!A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00032	0.00032	0.00033
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00032	0.00032	0.00032
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * C1 * Y)	0.00037	0.00037	0.00037
	(!A0 * !A1 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00036	0.00037	0.00037
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00015	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00037	0.00037	0.00037
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7R	**(A1 * B0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C1 * !Y)	0.00064	0.00064	0.00064
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00004	-0.00005	-0.00004
	(A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * !Y)	0.00063	0.00064	0.00064
	(A1 * B0 * !C0 * !C1 * Y)	-0.00035	-0.00033	-0.00029
	(A1 * B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00043	0.00044	0.00044
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00041	-0.00041	-0.00041
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !C0 * !C1 * Y)	0.00039	0.00040	0.00040
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C1 * !Y)	0.00063	0.00064	0.00064
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00064	0.00064	0.00064
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00036	-0.00033	-0.00029
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00043	0.00043	0.00044
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00041	-0.00041	-0.00040
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00038	0.00039	0.00040
	(!A0 * !A1 * B0 * C1 * Y)	-0.00037	-0.00034	-0.00030
	(!A0 * !A1 * B0 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * C1 * Y)	0.00011	0.00012	0.00013
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00037	-0.00035	-0.00031
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00011	0.00012	0.00012
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00038	-0.00035	-0.00031
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00012	0.00012	0.00013
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00042	-0.00042	-0.00041
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * C1 * Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00042	-0.00042	-0.00042
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00001	-0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00043	-0.00042	-0.00042
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00011	0.00011	0.00011

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7R	**(A1 * B0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C1 * !Y)	-0.00064	-0.00064	-0.00063
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !C1 * !Y)	-0.00064	-0.00064	-0.00063
	(A1 * B0 * !C0 * !C1 * Y)	0.00035	0.00035	0.00035
	(A1 * B0 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y)	-0.00043	-0.00043	-0.00042
	(A1 * !B0 * !C0 * !C1 * Y)	0.00041	0.00042	0.00042
	(A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00039	-0.00036	-0.00033
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C1 * !Y)	-0.00064	-0.00064	-0.00063
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00064	-0.00064	-0.00063
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00035	0.00036	0.00036
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00043	-0.00043	-0.00043
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00041	0.00042	0.00043
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00039	-0.00036	-0.00032
	(!A0 * !A1 * B0 * C1 * Y)	0.00037	0.00037	0.00037
	(!A0 * !A1 * B0 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * C1 * Y)	-0.00012	-0.00011	-0.00011
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00037	0.00038	0.00038
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00037	0.00038	0.00038
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * C1 * Y)	0.00042	0.00042	0.00042
	(!A0 * !A1 * !B0 * C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00011	-0.00010	-0.00010
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00042	0.00042	0.00042
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00042	0.00043	0.00043
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00011	-0.00011	-0.00011

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7R	**(A1 * B1 * C1 * !Y)**	-0.00027	-0.00024	-0.00019
	(A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00050	0.00051	0.00053
	(A1 * B0 * !B1 * C1 * !Y)	-0.00027	-0.00024	-0.00019
	(A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00050	0.00051	0.00054
	(A1 * !B0 * !B1 * C1 * Y)	-0.00041	-0.00039	-0.00035
	(A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C1 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * C1 * Y)	0.00016	0.00017	0.00017
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00047	-0.00046	-0.00046
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * !C1 * Y)	0.00015	0.00016	0.00016
	(A0 * !A1 * B1 * C1 * !Y)	-0.00027	-0.00024	-0.00019
	(A0 * !A1 * B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00050	0.00051	0.00053
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00027	-0.00024	-0.00019
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00050	0.00051	0.00053
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00041	-0.00039	-0.00035
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * C1 * Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00047	-0.00046	-0.00046
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * B1 * C1 * Y)	-0.00041	-0.00038	-0.00034
	(!A0 * !A1 * B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * B1 * C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00047	-0.00046	-0.00046
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00041	-0.00039	-0.00035
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00047	-0.00046	-0.00046
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7R	**(A1 * B1 * C1 * !Y)**	0.00027	0.00027	0.00028
	(A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	-0.00050	-0.00049	-0.00049
	(A1 * B0 * !B1 * C1 * !Y)	0.00027	0.00028	0.00028
	(A1 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00050	-0.00049	-0.00049
	(A1 * !B0 * !B1 * C1 * Y)	0.00041	0.00041	0.00041
	(A1 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(A1 * !B0 * !B1 * !C1 * Y)	0.00046	0.00047	0.00047
	(A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00004	-0.00005	-0.00004
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00016	-0.00015	-0.00015
	(A0 * !A1 * B1 * C1 * !Y)	0.00027	0.00028	0.00028
	(A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00050	-0.00049	-0.00049
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00027	0.00028	0.00028
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00050	-0.00049	-0.00049
	(!A1 * !B0 * !B1 * C1 * Y)	0.00041	0.00041	0.00041
	(!A1 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00046	0.00047	0.00047
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00004	-0.00005	-0.00004
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * B1 * C1 * Y)	0.00040	0.00041	0.00041
	(!A0 * !A1 * B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C1 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * B1 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * B1 * !C1 * Y)	0.00046	0.00047	0.00047
	(!A0 * !A1 * B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00041	0.00041	0.00041
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00046	0.00047	0.00047
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X3H7R	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !Y)	0.00061	0.00062	0.00062
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !Y)	0.00061	0.00062	0.00062
	(A1 * !B0 * !B1 * C0 * Y)	-0.00049	-0.00046	-0.00041
	(A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * C0 * Y)	0.00011	0.00011	0.00012
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00055	-0.00054	-0.00054
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00005
	(A1 * !B0 * !B1 * !C0 * Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !Y)	0.00062	0.00062	0.00062
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00062	0.00062	0.00062
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00049	-0.00046	-0.00041
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1 * !B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * C0 * Y)	0.00011	0.00011	0.00012
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00054	-0.00054	-0.00053
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * Y)	-0.00048	-0.00045	-0.00041
	(!A0 * !A1 * B1 * C0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00054	-0.00054	-0.00053
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00049	-0.00046	-0.00041
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00004	-0.00003	-0.00002
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00054	-0.00054	-0.00053
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

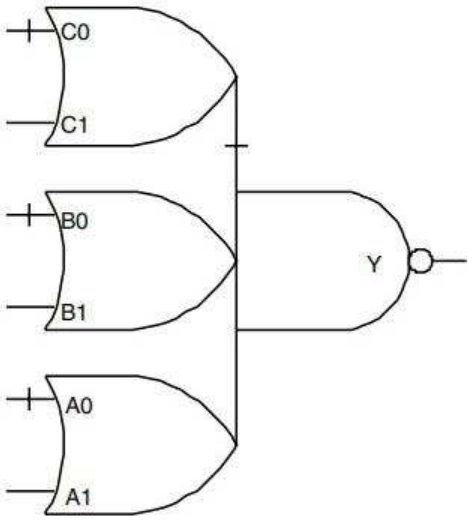
OAI222X3H7R	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !Y)	-0.00062	-0.00062	-0.00061
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !Y)	-0.00062	-0.00062	-0.00061
	(A1 * !B0 * !B1 * C0 * Y)	0.00048	0.00049	0.00049
	(A1 * !B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * C0 * Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !B1 * !C0 * Y)	0.00054	0.00054	0.00055
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00010	-0.00010	-0.00010
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !Y)	-0.00062	-0.00062	-0.00062
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00062	-0.00062	-0.00061
	(!A1 * !B0 * !B1 * C0 * Y)	0.00048	0.00049	0.00049
	(!A1 * !B0 * !B1 * C0 * Y)	0.00002	0.00003	0.00003
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00011	-0.00011	-0.00011
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00054	0.00054	0.00054
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * C0 * Y)	0.00048	0.00048	0.00048
	(!A0 * !A1 * B1 * C0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C0 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * !C0 * Y)	0.00054	0.00054	0.00055
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00048	0.00049	0.00049
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00003	0.00003	0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00054	0.00054	0.00054
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00009	-0.00009	-0.00008

OAI222X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI222 cell provides the logical inverted AND of three OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT						OUTPUT
A0	A1	B0	B1	C0	C1	Y
0	0	x	x	x	x	1
x	1	0	0	x	x	1
x	1	x	1	0	0	1
x	1	x	1	x	1	0
x	1	x	1	1	x	0
x	1	1	x	0	0	1
x	1	1	x	x	1	0
x	1	1	x	1	x	0
1	x	0	0	x	x	1
1	x	x	1	0	0	1
1	x	x	1	x	1	0
1	x	x	1	1	x	0
1	x	1	x	0	0	1
1	x	1	x	x	1	0
1	x	1	x	1	x	0

Footprint

Cell Name	Area
OAI222X4H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	B0	B1	C0	C1	Y
OAI222X4H7R	0.00177	0.00186	0.00181	0.00185	0.00180	0.00191	0.07293

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI222X4H7R	0.00000	0.43772	1.02559

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X4H7R	A0->Y (FR)	0.04286	0.19533	0.64127
	A1->Y (FR)	0.03949	0.19402	0.65604
	B0->Y (FR)	0.03601	0.18600	0.63319
	B1->Y (FR)	0.03079	0.18326	0.64882
	C0->Y (FR)	0.02660	0.17435	0.62412
	C1->Y (FR)	0.02311	0.17262	0.63961

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI222X4H7R	A0->Y (RF)	0.04490	0.18116	0.57509
	A1->Y (RF)	0.04099	0.17614	0.57065
	B0->Y (RF)	0.04134	0.18330	0.61305
	B1->Y (RF)	0.03796	0.17879	0.60900
	C0->Y (RF)	0.03275	0.17169	0.60088
	C1->Y (RF)	0.02887	0.16637	0.59645

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X4H7R	A0	0.00539	0.00558	0.00603
	A0	-0.00047	-0.00045	-0.00041
	A0	0.00064	0.00065	0.00069
	A0	-0.00003	0.00005	0.00050
	A1	0.00474	0.00502	0.00585
	A1	-0.00029	-0.00029	-0.00026
	A1	0.00067	0.00067	0.00068
	A1	-0.00006	0.00008	0.00088
	B0	0.00471	0.00488	0.00538
	B0	-0.00043	-0.00043	-0.00037
	B0	0.00038	0.00041	0.00043
	B0	-0.00001	0.00010	0.00058
	B1	0.00420	0.00436	0.00523
	B1	-0.00027	-0.00027	-0.00026
	B1	0.00037	0.00041	0.00048
	B1	-0.00004	0.00017	0.00101
	C0	0.00391	0.00405	0.00472
	C0	-0.00043	-0.00043	-0.00043
	C0	0.00012	0.00014	0.00016
	C0	-0.00014	0.00001	0.00071
	C1	0.00333	0.00351	0.00454
	C1	-0.00028	-0.00027	-0.00026
	C1	0.00012	0.00014	0.00017
	C1	-0.00024	-0.00002	0.00115

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI222X4H7R	A0	-0.00010	-0.00003	0.00024
	A0	0.00075	0.00076	0.00076
	A0	-0.00065	-0.00063	-0.00063
	A0	0.00520	0.00533	0.00555
	A1	-0.00012	-0.00001	0.00036
	A1	0.00058	0.00059	0.00060
	A1	-0.00063	-0.00063	-0.00062
	A1	0.00478	0.00489	0.00516
	B0	-0.00012	-0.00003	0.00038
	B0	0.00075	0.00076	0.00077
	B0	-0.00040	-0.00039	-0.00031
	B0	0.00431	0.00447	0.00482
	B1	-0.00017	-0.00004	0.00053
	B1	0.00053	0.00059	0.00064
	B1	-0.00044	-0.00041	-0.00037
	B1	0.00396	0.00410	0.00449
	C0	-0.00009	0.00006	0.00093
	C0	0.00075	0.00075	0.00079
	C0	-0.00014	-0.00014	-0.00010
	C0	0.00346	0.00366	0.00443
	C1	-0.00016	0.00004	0.00110
	C1	0.00059	0.00059	0.00060
	C1	-0.00014	-0.00013	-0.00010
	C1	0.00304	0.00323	0.00407

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7R	**(A1 * B1 * C1 * !Y)**	-0.00034	-0.00030	-0.00025
	(A1 * B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00056	0.00058	0.00061
	(A1 * B1 * C0 * !C1 * !Y)	-0.00034	-0.00030	-0.00025
	(A1 * B1 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B1 * C0 * !C1 * !Y)	0.00056	0.00058	0.00061
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00034	-0.00031	-0.00026
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00056	0.00056	0.00057
	(A1 * B0 * !B1 * C1 * !Y)	-0.00034	-0.00030	-0.00025
	(A1 * B0 * !B1 * C1 * !Y)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * !B1 * C1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * C1 * !Y)	0.00056	0.00058	0.00061
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00034	-0.00030	-0.00025
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00056	0.00058	0.00060
	(A1 * !B0 * !B1 * Y)	-0.00034	-0.00031	-0.00027
	(A1 * !B0 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00056	0.00056	0.00057
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00042	-0.00042	-0.00042
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B1 * !C0 * !C1 * Y)	0.00003	0.00004	0.00004
	(!A1 * B1 * !C0 * !C1 * Y)	0.00048	0.00048	0.00049
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00042	-0.00042	-0.00042
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00003	0.00004	0.00004
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00048	0.00049	0.00049
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00042	-0.00042	-0.00041
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00004
	(!A1 * !B0 * !B1 * C1 * Y)	0.00050	0.00050	0.00050
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00042	-0.00042	-0.00041
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00002	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00049	0.00049	0.00050
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00042	-0.00042	-0.00041
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00047	0.00048	0.00048

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7R	**(A1 * B1 * C1 * !Y)**	0.00034	0.00035	0.00035
	(A1 * B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	-0.00056	-0.00056	-0.00056
	(A1 * B1 * C0 * !C1 * !Y)	0.00034	0.00035	0.00035
	(A1 * B1 * C0 * !C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00056	-0.00056	-0.00055
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00033	0.00034	0.00034
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !C1 * Y) + (A1 * !B0 * B1 * !C0 * !C1 * Y)	-0.00056	-0.00056	-0.00055
	(A1 * B0 * !B1 * C1 * !Y)	0.00034	0.00035	0.00035
	(A1 * B0 * !B1 * C1 * !Y)	0.00003	0.00004	0.00004
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	0.00000
	(A1 * B0 * !B1 * C1 * !Y)	-0.00056	-0.00056	-0.00055
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00034	0.00035	0.00035
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	0.00003	0.00004	0.00004
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C0 * !C1 * !Y)	-0.00057	-0.00056	-0.00055
	(A1 * !B0 * !B1 * Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	-0.00056	-0.00056	-0.00056
	(!A1 * B1 * !C0 * !C1 * Y)	0.00042	0.00042	0.00042
	(!A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A1 * B1 * !C0 * !C1 * Y)	-0.00048	-0.00044	-0.00038
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00042	0.00042	0.00042
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A1 * B0 * !B1 * !C0 * !C1 * Y)	-0.00048	-0.00044	-0.00039
	(!A1 * !B0 * !B1 * C1 * Y)	0.00042	0.00042	0.00042
	(!A1 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00049	-0.00046	-0.00041
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00042	0.00042	0.00042
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00002
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * C0 * !C1 * Y)	-0.00049	-0.00046	-0.00041
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00041	0.00042	0.00042
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00048	-0.00045	-0.00040

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7R	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * C1 * !Y)	0.00070	0.00071	0.00071
	(A0 * B1 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * B1 * C0 * !C1 * !Y)	0.00071	0.00071	0.00071
	(A0 * B1 * !C0 * !C1 * Y)	-0.00041	-0.00037	-0.00032
	(A0 * B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B1 * !C0 * !C1 * Y)	0.00051	0.00051	0.00052
	(A0 * B0 * !B1 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !B1 * C1 * !Y)	0.00071	0.00071	0.00071
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00071	0.00071	0.00071
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00041	-0.00037	-0.00032
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00051	0.00051	0.00052
	(A0 * !B0 * !B1 * C1 * Y)	-0.00041	-0.00037	-0.00032
	(A0 * !B0 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C1 * Y)	0.00051	0.00051	0.00051
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00041	-0.00037	-0.00032
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00051	0.00051	0.00052
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00041	-0.00038	-0.00033
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00051	0.00051	0.00051
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00048	-0.00048	-0.00047
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * B1 * !C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * B1 * !C0 * !C1 * Y)	0.00043	0.00043	0.00044
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00048	-0.00048	-0.00047
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00003	0.00004	0.00004
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00043	0.00044	0.00044
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00048	-0.00047	-0.00047
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * C1 * Y)	0.00044	0.00044	0.00045
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00048	-0.00048	-0.00047
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00003	0.00003	0.00004
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00044	0.00045	0.00045
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00048	-0.00047	-0.00047
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00043	0.00043	0.00043

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7R	**(A0 * B1 * C1 * !Y)**	-0.00000	0.00000	0.00000
	(A0 * B1 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C1 * !Y)	-0.00071	-0.00071	-0.00070
	(A0 * B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * C0 * !C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * C0 * !C1 * !Y)	-0.00071	-0.00071	-0.00070
	(A0 * B1 * !C0 * !C1 * Y)	0.00040	0.00040	0.00041
	(A0 * B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(A0 * B1 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y)	-0.00051	-0.00051	-0.00049
	(A0 * B0 * !B1 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C1 * !Y)	-0.00071	-0.00071	-0.00070
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * C0 * !C1 * !Y)	-0.00071	-0.00071	-0.00070
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00040	0.00040	0.00041
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00003	0.00004	0.00004
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00051	-0.00051	-0.00050
	(A0 * !B0 * !B1 * C1 * Y)	0.00040	0.00040	0.00041
	(A0 * !B0 * !B1 * C1 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C1 * Y)	-0.00051	-0.00050	-0.00050
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00040	0.00040	0.00041
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00003	0.00004	0.00004
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00051	-0.00051	-0.00050
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00040	0.00040	0.00041
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00051	-0.00051	-0.00050
	(!A0 * B1 * !C0 * !C1 * Y)	0.00048	0.00048	0.00048
	(!A0 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * B1 * !C0 * !C1 * Y)	-0.00043	-0.00039	-0.00034
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00048	0.00048	0.00048
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * B0 * !B1 * !C0 * !C1 * Y)	-0.00043	-0.00039	-0.00034
	(!A0 * !B0 * !B1 * C1 * Y)	0.00047	0.00048	0.00048
	(!A0 * !B0 * !B1 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * C1 * Y)	-0.00044	-0.00040	-0.00036
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00047	0.00048	0.00048
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00004	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * C0 * !C1 * Y)	-0.00044	-0.00040	-0.00035
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00047	0.00047	0.00048
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !B1 * !C0 * !C1 * Y)	-0.00043	-0.00040	-0.00035

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7R	**(A1 * B1 * C1 * !Y)**	-0.00032	-0.00029	-0.00023
	(A1 * B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00061	0.00063	0.00064
	(A1 * B1 * C0 * !C1 * !Y)	-0.00032	-0.00029	-0.00024
	(A1 * B1 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C0 * !C1 * !Y)	0.00061	0.00063	0.00065
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00043	-0.00043	-0.00042
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(A1 * !B1 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A1 * !B1 * !C0 * !C1 * Y)	0.00051	0.00052	0.00052
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00037	-0.00034	-0.00030
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00056	0.00056	0.00057
	(A0 * !A1 * B1 * C1 * !Y)	-0.00032	-0.00028	-0.00023
	(A0 * !A1 * B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00061	0.00062	0.00064
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00032	-0.00028	-0.00023
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00062	0.00062	0.00064
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00043	-0.00043	-0.00042
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	0.00000
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00051	0.00052	0.00052
	(!A0 * !A1 * B1 * C1 * Y)	-0.00039	-0.00036	-0.00032
	(!A0 * !A1 * B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C1 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * B1 * C1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00039	-0.00037	-0.00033
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00004	-0.00003	-0.00002
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00039	-0.00037	-0.00032
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00013	0.00014	0.00014
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00017
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00044	-0.00044	-0.00044
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00045	-0.00044	-0.00044
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00010	0.00011	0.00011
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00045	-0.00045	-0.00045
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7R	**(A1 * B1 * C1 * !Y)**	0.00032	0.00032	0.00033
	(A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	-0.00062	-0.00061	-0.00061
	(A1 * B1 * C0 * !C1 * !Y)	0.00032	0.00032	0.00033
	(A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !C1 * !Y)	-0.00062	-0.00061	-0.00061
	(A1 * !B1 * !C0 * !C1 * Y)	0.00043	0.00044	0.00046
	(A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * !B1 * !C0 * !C1 * Y)	-0.00051	-0.00048	-0.00043
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00036	0.00037	0.00037
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !C0 * !C1 * Y) + (!A0 * A1 * B1 * !C0 * !C1 * Y)	-0.00056	-0.00056	-0.00056
	(A0 * !A1 * B1 * C1 * !Y)	0.00032	0.00032	0.00033
	(A0 * !A1 * B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00061	-0.00061	-0.00061
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00032	0.00032	0.00033
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	0.00003	0.00003	0.00004
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !C1 * !Y)	-0.00062	-0.00061	-0.00061
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00043	0.00044	0.00047
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00000	0.00001	0.00002
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00051	-0.00047	-0.00042
	(!A0 * !A1 * B1 * C1 * Y)	0.00039	0.00039	0.00039
	(!A0 * !A1 * B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B1 * C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00039	0.00040	0.00040
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	0.00002	0.00003	0.00004
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * B1 * C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00039	0.00039	0.00039
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B1 * C1 * Y)	0.00045	0.00045	0.00045
	(!A0 * !A1 * !B1 * C1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00045	0.00045	0.00045
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	0.00000	0.00001	0.00002
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00045	0.00045	0.00045
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * !C0 * !C1 * Y)	-0.00016	-0.00016	-0.00016

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7R	**(A1 * B0 * C1 * !Y)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * C1 * !Y)	-0.00007	-0.00007	-0.00006
	(A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * C1 * !Y)	0.00071	0.00071	0.00072
	(A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !C1 * !Y)	0.00071	0.00071	0.00072
	(A1 * B0 * !C0 * !C1 * Y)	-0.00043	-0.00040	-0.00035
	(A1 * B0 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !C1 * Y)	0.00048	0.00049	0.00049
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00050	-0.00050	-0.00049
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !C0 * !C1 * Y)	0.00044	0.00044	0.00044
	(A0 * !A1 * B0 * C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * !A1 * B0 * C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * C1 * !Y)	0.00071	0.00071	0.00072
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00071	0.00072	0.00072
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00043	-0.00040	-0.00036
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00005	-0.00004	-0.00004
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00048	0.00049	0.00049
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00050	-0.00049	-0.00049
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00002	0.00003	0.00003
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00044	0.00044	0.00044
	(!A0 * !A1 * B0 * C1 * Y)	-0.00045	-0.00041	-0.00036
	(!A0 * !A1 * B0 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * C1 * Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00045	-0.00042	-0.00037
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00045	-0.00042	-0.00038
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00010	0.00010	0.00011
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00051	-0.00051	-0.00050
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B0 * C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00051	-0.00051	-0.00051
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00052	-0.00051	-0.00051
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7R	**(A1 * B0 * C1 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C1 * !Y)	-0.00072	-0.00071	-0.00071
	(A1 * B0 * C0 * !C1 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !C1 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !C1 * !Y)	-0.00072	-0.00071	-0.00068
	(A1 * B0 * !C0 * !C1 * Y)	0.00042	0.00043	0.00043
	(A1 * B0 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !C0 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !C1 * Y)	-0.00049	-0.00048	-0.00048
	(A1 * !B0 * !C0 * !C1 * Y)	0.00050	0.00050	0.00052
	(A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !C0 * !C1 * Y)	-0.00043	-0.00040	-0.00035
	(A0 * !A1 * B0 * C1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C1 * !Y)	0.00007	0.00007	0.00007
	(A0 * !A1 * B0 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C1 * !Y)	-0.00072	-0.00071	-0.00070
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	0.00006	0.00007	0.00007
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * C0 * !C1 * !Y)	-0.00072	-0.00071	-0.00071
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00043	0.00043	0.00043
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00004	0.00004	0.00005
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00048	-0.00048	-0.00048
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00050	0.00051	0.00052
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00043	-0.00040	-0.00034
	(!A0 * !A1 * B0 * C1 * Y)	0.00045	0.00045	0.00045
	(!A0 * !A1 * B0 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00045	0.00045	0.00045
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	0.00003	0.00004	0.00004
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * C0 * !C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00045	0.00045	0.00045
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * B0 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B0 * C1 * Y)	0.00051	0.00051	0.00051
	(!A0 * !A1 * !B0 * C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B0 * C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00051	0.00051	0.00051
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00010	-0.00010	-0.00009
	(!A0 * !A1 * !B0 * C0 * !C1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00051	0.00051	0.00052
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * !C0 * !C1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7R	**(A1 * B1 * C1 * !Y)**	-0.00033	-0.00030	-0.00024
	(A1 * B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * C1 * !Y)	0.00056	0.00057	0.00060
	(A1 * B0 * !B1 * C1 * !Y)	-0.00033	-0.00030	-0.00025
	(A1 * B0 * !B1 * C1 * !Y)	-0.00004	-0.00003	-0.00003
	(A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !B1 * C1 * !Y)	0.00056	0.00057	0.00060
	(A1 * !B0 * !B1 * C1 * Y)	-0.00049	-0.00046	-0.00042
	(A1 * !B0 * !B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * C1 * Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * !B1 * C1 * Y)	0.00015	0.00016	0.00016
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00056	-0.00055	-0.00055
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C1 * Y)	0.00006	0.00006	0.00007
	(A1 * !B0 * !B1 * !C1 * Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * B1 * C1 * !Y)	-0.00033	-0.00030	-0.00024
	(A0 * !A1 * B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * C1 * !Y)	0.00056	0.00057	0.00059
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00034	-0.00030	-0.00024
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00056	0.00057	0.00059
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00049	-0.00046	-0.00041
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00005	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * C1 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !B1 * C1 * Y)	0.00015	0.00016	0.00016
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00056	-0.00055	-0.00055
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00006	0.00006	0.00007
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * B1 * C1 * Y)	-0.00049	-0.00046	-0.00041
	(!A0 * !A1 * B1 * C1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * C1 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00056	-0.00055	-0.00055
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * !C1 * Y)	0.00013	0.00013	0.00013
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00049	-0.00046	-0.00042
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00056	-0.00055	-0.00055
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00013	0.00013	0.00014

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7R	**(A1 * B1 * C1 * !Y)**	0.00034	0.00034	0.00035
	(A1 * B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C1 * !Y)	-0.00056	-0.00055	-0.00055
	(A1 * B0 * !B1 * C1 * !Y)	0.00034	0.00034	0.00035
	(A1 * B0 * !B1 * C1 * !Y)	0.00003	0.00003	0.00004
	(A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * C1 * !Y)	-0.00056	-0.00055	-0.00055
	(A1 * !B0 * !B1 * C1 * Y)	0.00049	0.00049	0.00049
	(A1 * !B0 * !B1 * C1 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * !B1 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(A1 * !B0 * !B1 * !C1 * Y)	0.00056	0.00056	0.00056
	(A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * !B1 * !C1 * Y)	-0.00015	-0.00015	-0.00015
	(A0 * !A1 * B1 * C1 * !Y)	0.00034	0.00034	0.00035
	(A0 * !A1 * B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * C1 * !Y)	-0.00056	-0.00055	-0.00055
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00034	0.00034	0.00035
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C1 * !Y)	-0.00056	-0.00055	-0.00055
	(!A1 * !B0 * !B1 * C1 * Y)	0.00048	0.00049	0.00049
	(!A1 * !B0 * !B1 * C1 * Y)	0.00004	0.00004	0.00005
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !B1 * C1 * Y)	-0.00015	-0.00015	-0.00015
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00055	0.00056	0.00056
	(!A1 * !B0 * !B1 * !C1 * Y)	0.00001	0.00002	0.00003
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !B1 * !C1 * Y)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * B1 * C1 * Y)	0.00048	0.00049	0.00049
	(!A0 * !A1 * B1 * C1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * B1 * !C1 * Y)	0.00056	0.00056	0.00056
	(!A0 * !A1 * B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00049	0.00049	0.00049
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !B1 * C1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00055	0.00056	0.00056
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !B1 * !C1 * Y)	-0.00013	-0.00013	-0.00013

Passive power(pJ) for C1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI222X4H7R	**(A1 * B1 * C0 * !Y)**	-0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00006
	(A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * B1 * C0 * !Y)	0.00070	0.00070	0.00071
	(A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !B1 * C0 * !Y)	0.00070	0.00070	0.00071
	(A1 * !B0 * !B1 * C0 * Y)	-0.00058	-0.00054	-0.00049
	(A1 * !B0 * !B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00006	0.00006
	(A1 * !B0 * !B1 * C0 * Y)	0.00010	0.00010	0.00011
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00065	-0.00064	-0.00063
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(A1 * !B0 * !B1 * !C0 * Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B1 * C0 * !Y)	0.00070	0.00070	0.00071
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00070	0.00070	0.00071
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00058	-0.00054	-0.00049
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00006	-0.00004	-0.00004
	(!A1 * !B0 * !B1 * C0 * Y)	0.00005	0.00006	0.00006
	(!A1 * !B0 * !B1 * C0 * Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00065	-0.00064	-0.00064
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	0.00001
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * B1 * C0 * Y)	-0.00058	-0.00054	-0.00048
	(!A0 * !A1 * B1 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * C0 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00065	-0.00064	-0.00063
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	0.00007	0.00007	0.00008
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00058	-0.00054	-0.00049
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00008	0.00009	0.00009
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00065	-0.00064	-0.00063
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for C1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

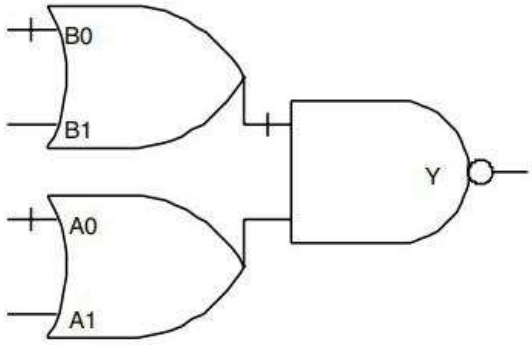
OAI222X4H7R	**(A1 * B1 * C0 * !Y)**	0.00000	0.00000	0.00000
	(A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(A1 * B1 * C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * C0 * !Y)	-0.00071	-0.00070	-0.00070
	(A1 * B0 * !B1 * C0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * !B1 * C0 * !Y)	-0.00001	-0.00001	0.00003
	(A1 * B0 * !B1 * C0 * !Y)	-0.00071	-0.00070	-0.00070
	(A1 * !B0 * !B1 * C0 * Y)	0.00057	0.00058	0.00058
	(A1 * !B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(A1 * !B0 * !B1 * C0 * Y)	-0.00010	-0.00009	-0.00009
	(A1 * !B0 * !B1 * !C0 * Y)	0.00064	0.00064	0.00065
	(A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(A1 * !B0 * !B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(A0 * !A1 * B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * !A1 * B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B1 * C0 * !Y)	-0.00071	-0.00070	-0.00070
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	0.00007	0.00007	0.00007
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * C0 * !Y)	-0.00071	-0.00070	-0.00070
	(!A1 * !B0 * !B1 * C0 * Y)	0.00057	0.00058	0.00058
	(!A1 * !B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00006
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A1 * !B0 * !B1 * C0 * Y)	-0.00010	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00064	0.00064	0.00065
	(!A1 * !B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A1 * !B0 * !B1 * !C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * C0 * Y)	0.00057	0.00057	0.00058
	(!A0 * !A1 * B1 * C0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B1 * !C0 * Y)	0.00064	0.00064	0.00065
	(!A0 * !A1 * B1 * !C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00057	0.00058	0.00058
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	0.00004	0.00004	0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * B0 * !B1 * C0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00064	0.00064	0.00065
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * !B1 * !C0 * Y)	-0.00008	-0.00008	-0.00007

OAI22X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X0P5H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X0P5H7R	0.00064	0.00072	0.00065	0.00074	0.02093

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X0P5H7R	0.00000	0.11719	0.28639

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X0P5H7R	A0->Y (FR)	0.04276	0.19383	0.63770
	A1->Y (FR)	0.04349	0.19713	0.65710
	B0->Y (FR)	0.03345	0.18144	0.62664
	B1->Y (FR)	0.03174	0.18271	0.64606

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X0P5H7R	A0->Y (RF)	0.03160	0.14280	0.49505
	A1->Y (RF)	0.03026	0.14014	0.49202
	B0->Y (RF)	0.02564	0.13491	0.50049
	B1->Y (RF)	0.02423	0.13205	0.49863

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X0P5H7R	A0	0.00116	0.00121	0.00139
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00011	0.00011	0.00011
	A0	-0.00004	-0.00001	0.00016
	A1	0.00107	0.00112	0.00139
	A1	-0.00005	-0.00005	-0.00004
	A1	0.00011	0.00011	0.00011
	A1	0.00001	0.00007	0.00032
	B0	0.00086	0.00091	0.00113
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00003	0.00004	0.00004
	B0	-0.00009	-0.00004	0.00019
	B1	0.00076	0.00082	0.00112
	B1	-0.00005	-0.00004	-0.00004
	B1	0.00003	0.00003	0.00004
	B1	-0.00005	0.00001	0.00034

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X0P5H7R	A0	-0.00006	-0.00004	0.00010
	A0	0.00013	0.00013	0.00013
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00115	0.00119	0.00131
	A1	-0.00008	-0.00004	0.00012
	A1	0.00009	0.00009	0.00009
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00099	0.00104	0.00118
	B0	-0.00007	-0.00002	0.00027
	B0	0.00013	0.00013	0.00013
	B0	-0.00004	-0.00003	-0.00002
	B0	0.00082	0.00089	0.00116
	B1	-0.00007	-0.00001	0.00031
	B1	0.00008	0.00009	0.00009
	B1	-0.00004	-0.00003	-0.00003
	B1	0.00069	0.00077	0.00105

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7R	(A1 * B1 * !Y)	-0.00008	-0.00007	-0.00006
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * !Y)	0.00025	0.00025	0.00025
	(A1 * B0 * !B1 * !Y)	-0.00008	-0.00007	-0.00006
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !Y)	0.00025	0.00025	0.00026
	(A1 * !B0 * !B1 * Y)	-0.00008	-0.00007	-0.00007
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00025	0.00025	0.00025
	(!A1 * !B0 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7R	(A1 * B1 * !Y)	0.00008	0.00008	0.00008
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !B1 * !Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !B1 * Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00025	-0.00025	-0.00025
	(!A1 * !B0 * !B1 * Y)	0.00010	0.00010	0.00010
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7R	(A0 * B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00024	0.00024	0.00024
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00024	0.00024	0.00024
	(A0 * !B0 * !B1 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00018	0.00018	0.00018
	(!A0 * !B0 * !B1 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	0.00016	0.00016	0.00017

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7R	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * !B1 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !B0 * !B1 * Y)	0.00013	0.00014	0.00014
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7R	(A1 * B1 * !Y)	-0.00008	-0.00007	-0.00006
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * !Y)	0.00025	0.00025	0.00026
	(A0 * !A1 * B1 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !Y)	0.00025	0.00025	0.00026
	(!A0 * !A1 * B1 * Y)	-0.00016	-0.00016	-0.00015
	(!A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7R	(A1 * B1 * !Y)	0.00008	0.00008	0.00008
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * B1 * !Y)	0.00008	0.00008	0.00008
	(A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * B1 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7R	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A0 * !A1 * B0 * Y)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * Y)	0.00004	0.00005	0.00005

Passive power(pJ) for B1 falling (conditional):

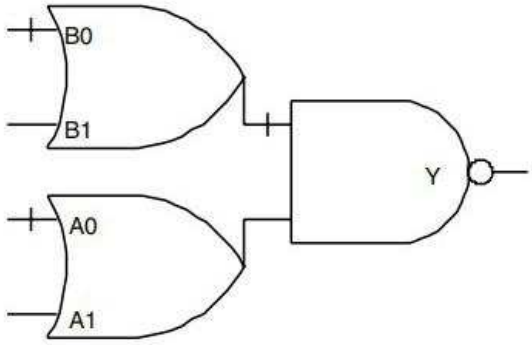
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P5H7R	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004

OAI22X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X0P7H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X0P7H7R	0.00069	0.00077	0.00070	0.00079	0.02372

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X0P7H7R	0.00000	0.13216	0.32280

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X0P7H7R	A0->Y (FR)	0.04046	0.19226	0.63947
	A1->Y (FR)	0.04087	0.19500	0.65736
	B0->Y (FR)	0.03114	0.17975	0.62784
	B1->Y (FR)	0.02942	0.18071	0.64704

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X0P7H7R	A0->Y (RF)	0.03000	0.14110	0.49471
	A1->Y (RF)	0.02843	0.13823	0.49255
	B0->Y (RF)	0.02410	0.13293	0.49904
	B1->Y (RF)	0.02255	0.12994	0.49612

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X0P7H7R	A0	0.00128	0.00132	0.00151
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00012	0.00013	0.00013
	A0	-0.00005	-0.00001	0.00018
	A1	0.00115	0.00122	0.00151
	A1	-0.00005	-0.00005	-0.00005
	A1	0.00012	0.00013	0.00013
	A1	0.00001	0.00006	0.00035
	B0	0.00093	0.00098	0.00123
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00004	0.00004	0.00004
	B0	-0.00010	-0.00005	0.00021
	B1	0.00081	0.00088	0.00123
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00004	0.00004	0.00004
	B1	-0.00006	0.00002	0.00038

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X0P7H7R	A0	-0.00007	-0.00005	0.00011
	A0	0.00015	0.00015	0.00015
	A0	-0.00012	-0.00012	-0.00011
	A0	0.00126	0.00129	0.00143
	A1	-0.00008	-0.00004	0.00014
	A1	0.00010	0.00010	0.00010
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00110	0.00114	0.00130
	B0	-0.00008	-0.00002	0.00030
	B0	0.00015	0.00015	0.00015
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00089	0.00097	0.00127
	B1	-0.00007	-0.00001	0.00035
	B1	0.00010	0.00010	0.00010
	B1	-0.00004	-0.00004	-0.00004
	B1	0.00074	0.00082	0.00115

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7R	(A1 * B1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B1 * !Y)	0.00026	0.00026	0.00027
	(A1 * B0 * !B1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !Y)	0.00026	0.00026	0.00027
	(A1 * !B0 * !B1 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * Y)	0.00026	0.00026	0.00026
	(!A1 * !B0 * !B1 * Y)	-0.00011	-0.00011	-0.00010
	(!A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7R	(A1 * B1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * B0 * !B1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !B0 * !B1 * Y)	0.00011	0.00011	0.00012
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00024	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7R	(A0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00026	0.00026	0.00026
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00026	0.00026	0.00026
	(A0 * !B0 * !B1 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * !B1 * Y)	0.00020	0.00020	0.00020
	(!A0 * !B0 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7R	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !B0 * !B1 * Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !B0 * !B1 * Y)	0.00014	0.00014	0.00015
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00018	-0.00016	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7R	(A1 * B1 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B1 * !Y)	0.00027	0.00027	0.00027
	(A0 * !A1 * B1 * !Y)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B1 * !Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B1 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * Y)	-0.00019	-0.00018	-0.00018
	(!A0 * !A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7R	(A1 * B1 * !Y)	0.00009	0.00009	0.00009
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00027	-0.00026	-0.00026
	(A0 * !A1 * B1 * !Y)	0.00009	0.00009	0.00009
	(A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * !A1 * B1 * Y)	0.00017	0.00017	0.00018
	(!A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B1 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7R	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00000	0.00001
	(A1 * B0 * !Y)	0.00027	0.00028	0.00028
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00027	0.00028	0.00028
	(!A0 * !A1 * B0 * Y)	-0.00021	-0.00020	-0.00018
	(!A0 * !A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

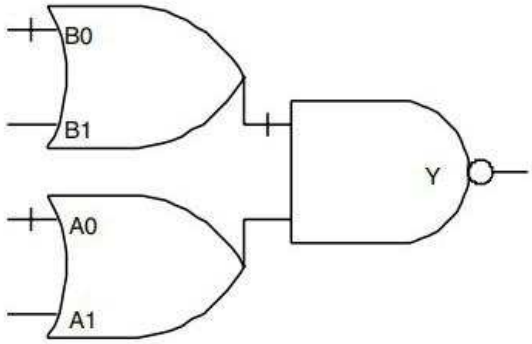
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X0P7H7R	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * B0 * Y)	0.00020	0.00021	0.00021
	(!A0 * !A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004

OAI22X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X1H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X1H7R	0.00074	0.00081	0.00077	0.00085	0.02831

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X1H7R	0.00000	0.15384	0.37272

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X1H7R	A0->Y (FR)	0.03920	0.19125	0.64120
	A1->Y (FR)	0.03499	0.19012	0.65809
	B0->Y (FR)	0.02847	0.17793	0.63117
	B1->Y (FR)	0.02654	0.17832	0.64814

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X1H7R	A0->Y (RF)	0.02829	0.14091	0.50006
	A1->Y (RF)	0.02648	0.13766	0.49752
	B0->Y (RF)	0.02273	0.13310	0.50478
	B1->Y (RF)	0.02101	0.12994	0.50254

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X1H7R	A0	0.00143	0.00148	0.00170
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00015	0.00015	0.00015
	A0	-0.00006	-0.00001	0.00020
	A1	0.00127	0.00134	0.00169
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00015	0.00015	0.00015
	A1	-0.00002	0.00005	0.00039
	B0	0.00106	0.00112	0.00141
	B0	-0.00012	-0.00012	-0.00012
	B0	0.00005	0.00005	0.00005
	B0	-0.00012	-0.00006	0.00025
	B1	0.00091	0.00098	0.00140
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00005	0.00005	0.00005
	B1	-0.00008	0.00001	0.00045

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X1H7R	A0	-0.00009	-0.00006	0.00013
	A0	0.00018	0.00018	0.00018
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00139	0.00145	0.00161
	A1	-0.00010	-0.00005	0.00017
	A1	0.00012	0.00012	0.00012
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00122	0.00127	0.00146
	B0	-0.00009	-0.00003	0.00035
	B0	0.00018	0.00018	0.00018
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00100	0.00109	0.00145
	B1	-0.00009	-0.00001	0.00042
	B1	0.00006	0.00006	0.00014
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00084	0.00093	0.00132

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7R	(A1 * B1 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	0.00000	0.00000	0.00001
	(A1 * B1 * !Y)	0.00027	0.00027	0.00028
	(A1 * B0 * !B1 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	0.00027	0.00027	0.00028
	(A1 * !B0 * !B1 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00027	0.00027	0.00027
	(!A1 * !B0 * !B1 * Y)	-0.00013	-0.00013	-0.00012
	(!A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * Y)	0.00024	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7R	(A1 * B1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !B1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * !B1 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !B0 * !B1 * Y)	0.00013	0.00013	0.00014
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00024	-0.00023	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7R	(A0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !Y)	0.00028	0.00028	0.00028
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * !Y)	0.00028	0.00028	0.00028
	(A0 * !B0 * !B1 * Y)	-0.00015	-0.00014	-0.00012
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !B0 * !B1 * Y)	-0.00017	-0.00017	-0.00016
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7R	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !Y)	-0.00028	-0.00028	-0.00028
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !B1 * !Y)	-0.00028	-0.00028	-0.00027
	(A0 * !B0 * !B1 * Y)	0.00014	0.00014	0.00015
	(A0 * !B0 * !B1 * Y)	0.00001	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * Y)	0.00017	0.00017	0.00017
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7R	(A1 * B1 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * !Y)	0.00029	0.00029	0.00030
	(A0 * !A1 * B1 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	0.00029	0.00029	0.00029
	(!A0 * !A1 * B1 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !A1 * B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00010
	(!A0 * !A1 * !B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * Y)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7R	(A1 * B1 * !Y)	0.00011	0.00011	0.00011
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !Y)	-0.00029	-0.00029	-0.00028
	(!A0 * !A1 * B1 * Y)	0.00019	0.00020	0.00020
	(!A0 * !A1 * B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7R	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00030	0.00030	0.00030
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * B0 * Y)	-0.00023	-0.00021	-0.00020
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

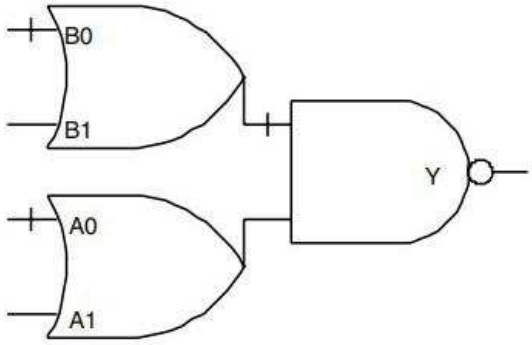
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1H7R	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00001	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * B0 * Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004

OAI22X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X1P4H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X1P4H7R	0.00080	0.00088	0.00081	0.00091	0.03232

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X1P4H7R	0.00000	0.17465	0.42224

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X1P4H7R	A0->Y (FR)	0.03689	0.18944	0.64271
	A1->Y (FR)	0.03464	0.18957	0.65873
	B0->Y (FR)	0.02667	0.17657	0.63296
	B1->Y (FR)	0.02462	0.17669	0.64890

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X1P4H7R	A0->Y (RF)	0.02675	0.13889	0.49914
	A1->Y (RF)	0.02485	0.13557	0.49610
	B0->Y (RF)	0.02145	0.13137	0.50311
	B1->Y (RF)	0.01968	0.12812	0.50116

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X1P4H7R	A0	0.00156	0.00163	0.00188
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00017	0.00017	0.00017
	A0	-0.00007	-0.00002	0.00023
	A1	0.00138	0.00146	0.00186
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00017	0.00017	0.00017
	A1	-0.00003	0.00005	0.00044
	B0	0.00116	0.00122	0.00156
	B0	-0.00014	-0.00014	-0.00014
	B0	0.00005	0.00006	0.00006
	B0	-0.00013	-0.00006	0.00031
	B1	0.00098	0.00107	0.00155
	B1	-0.00008	-0.00007	-0.00007
	B1	0.00005	0.00006	0.00006
	B1	-0.00009	0.00001	0.00052

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X1P4H7R	A0	-0.00010	-0.00007	0.00015
	A0	0.00021	0.00021	0.00021
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00154	0.00158	0.00177
	A1	-0.00011	-0.00006	0.00021
	A1	0.00014	0.00014	0.00015
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00134	0.00139	0.00162
	B0	-0.00010	-0.00003	0.00040
	B0	0.00021	0.00021	0.00021
	B0	-0.00006	-0.00006	-0.00003
	B0	0.00109	0.00119	0.00159
	B1	-0.00010	-0.00001	0.00049
	B1	0.00013	0.00014	0.00016
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00088	0.00101	0.00146

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7R	(A1 * B1 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * !Y)	0.00028	0.00029	0.00029
	(A1 * B0 * !B1 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	0.00028	0.00029	0.00029
	(A1 * !B0 * !B1 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00028	0.00028	0.00028
	(!A1 * !B0 * !B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7R	(A1 * B1 * !Y)	0.00012	0.00013	0.00013
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !Y)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !B1 * !Y)	0.00013	0.00013	0.00013
	(A1 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * !Y)	-0.00029	-0.00028	-0.00028
	(A1 * !B0 * !B1 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * Y)	-0.00028	-0.00028	-0.00028
	(!A1 * !B0 * !B1 * Y)	0.00015	0.00015	0.00016
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00025	-0.00024	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7R	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B1 * !Y)	0.00030	0.00030	0.00030
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !B1 * !Y)	0.00030	0.00030	0.00030
	(A0 * !B0 * !B1 * Y)	-0.00015	-0.00014	-0.00012
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !B1 * Y)	-0.00018	-0.00017	-0.00017
	(!A0 * !B0 * !B1 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7R	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B1 * !Y)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !B1 * !Y)	-0.00030	-0.00030	-0.00029
	(A0 * !B0 * !B1 * Y)	0.00015	0.00015	0.00015
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !B0 * !B1 * Y)	0.00018	0.00018	0.00019
	(!A0 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00020	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7R	(A1 * B1 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	0.00029	0.00030	0.00030
	(A0 * !A1 * B1 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	0.00029	0.00030	0.00030
	(!A0 * !A1 * B1 * Y)	-0.00021	-0.00021	-0.00019
	(!A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !B1 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7R	(A1 * B1 * !Y)	0.00013	0.00013	0.00013
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !Y)	-0.00029	-0.00029	-0.00029
	(A0 * !A1 * B1 * !Y)	0.00013	0.00013	0.00013
	(A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !Y)	-0.00030	-0.00029	-0.00029
	(!A0 * !A1 * B1 * Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * Y)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7R	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00032	0.00032	0.00032
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00032	0.00032	0.00032
	(!A0 * !A1 * B0 * Y)	-0.00025	-0.00023	-0.00022
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

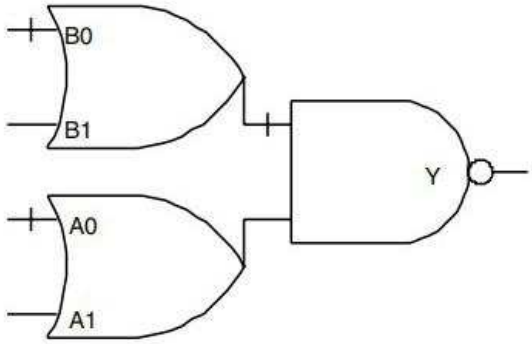
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X1P4H7R	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A0 * !A1 * B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A1 * B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * Y)	0.00026	0.00026	0.00027
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004

OAI22X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X2H7R	0.00090	0.00100	0.00095	0.00101	0.03803

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X2H7R	0.00000	0.20661	0.50027

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X2H7R	A0->Y (FR)	0.03279	0.18627	0.64406
	A1->Y (FR)	0.03050	0.18609	0.65867
	B0->Y (FR)	0.02512	0.17563	0.63422
	B1->Y (FR)	0.02275	0.17523	0.65002

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X2H7R	A0->Y (RF)	0.02490	0.13511	0.49101
	A1->Y (RF)	0.02306	0.13179	0.48918
	B0->Y (RF)	0.02015	0.12822	0.49668
	B1->Y (RF)	0.01821	0.12478	0.49484

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X2H7R	A0	0.00178	0.00184	0.00214
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00021	0.00021	0.00021
	A0	-0.00009	-0.00003	0.00026
	A1	0.00155	0.00165	0.00212
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00020	0.00021	0.00021
	A1	-0.00006	0.00003	0.00050
	B0	0.00133	0.00140	0.00181
	B0	-0.00017	-0.00017	-0.00017
	B0	0.00007	0.00007	0.00008
	B0	-0.00018	-0.00009	0.00035
	B1	0.00111	0.00122	0.00180
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00006	0.00007	0.00007
	B1	-0.00011	0.00000	0.00062

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X2H7R	A0	-0.00012	-0.00008	0.00018
	A0	0.00025	0.00025	0.00025
	A0	-0.00020	-0.00020	-0.00019
	A0	0.00173	0.00180	0.00203
	A1	-0.00013	-0.00006	0.00026
	A1	0.00017	0.00017	0.00017
	A1	-0.00020	-0.00019	-0.00019
	A1	0.00152	0.00158	0.00186
	B0	-0.00012	-0.00004	0.00048
	B0	0.00025	0.00025	0.00025
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00125	0.00138	0.00186
	B1	-0.00012	-0.00002	0.00059
	B1	0.00017	0.00017	0.00017
	B1	-0.00007	-0.00007	-0.00006
	B1	0.00106	0.00115	0.00170

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7R	(A1 * B1 * !Y)	-0.00015	-0.00014	-0.00012
	(A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * !Y)	0.00000	0.00001	0.00001
	(A1 * B1 * !Y)	0.00030	0.00031	0.00031
	(A1 * B0 * !B1 * !Y)	-0.00015	-0.00014	-0.00012
	(A1 * B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	0.00030	0.00031	0.00031
	(A1 * !B0 * !B1 * Y)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00030	0.00030	0.00030
	(!A1 * !B0 * !B1 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * Y)	0.00027	0.00028	0.00028

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7R	(A1 * B1 * !Y)	0.00015	0.00015	0.00015
	(A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * B0 * !B1 * !Y)	0.00015	0.00015	0.00015
	(A1 * B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * !Y)	-0.00030	-0.00030	-0.00030
	(A1 * !B0 * !B1 * Y)	0.00014	0.00015	0.00015
	(A1 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	-0.00030	-0.00030	-0.00030
	(!A1 * !B0 * !B1 * Y)	0.00017	0.00018	0.00018
	(!A1 * !B0 * !B1 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00027	-0.00025	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7R	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !Y)	0.00033	0.00033	0.00033
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !Y)	0.00033	0.00033	0.00033
	(A0 * !B0 * !B1 * Y)	-0.00019	-0.00017	-0.00015
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00024	0.00024	0.00025
	(!A0 * !B0 * !B1 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7R	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !Y)	-0.00033	-0.00033	-0.00033
	(A0 * !B0 * !B1 * Y)	0.00018	0.00018	0.00019
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !B0 * !B1 * Y)	0.00021	0.00021	0.00022
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7R	(A1 * B1 * !Y)	-0.00015	-0.00013	-0.00012
	(A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	0.00034	0.00034	0.00035
	(A0 * !A1 * B1 * !Y)	-0.00015	-0.00013	-0.00012
	(A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	0.00034	0.00034	0.00035
	(!A0 * !A1 * B1 * Y)	-0.00024	-0.00023	-0.00022
	(!A0 * !A1 * B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * Y)	-0.00027	-0.00026	-0.00026
	(!A0 * !A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B1 * Y)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7R	(A1 * B1 * !Y)	0.00015	0.00015	0.00015
	(A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !Y)	-0.00034	-0.00034	-0.00033
	(A0 * !A1 * B1 * !Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !Y)	-0.00034	-0.00034	-0.00033
	(!A0 * !A1 * B1 * Y)	0.00024	0.00024	0.00025
	(!A0 * !A1 * B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B1 * Y)	0.00026	0.00027	0.00027
	(!A0 * !A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B1 * Y)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7R	(A1 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00034	0.00035	0.00035
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00034	0.00035	0.00035
	(!A0 * !A1 * B0 * Y)	-0.00027	-0.00026	-0.00024
	(!A0 * !A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !B0 * Y)	-0.00030	-0.00029	-0.00029
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * Y)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

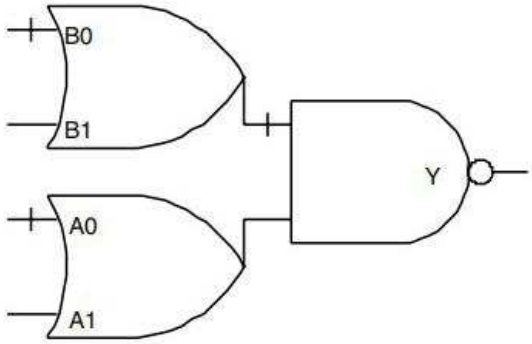
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X2H7R	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00035	-0.00035	-0.00034
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !Y)	-0.00035	-0.00035	-0.00034
	(!A0 * !A1 * B0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B0 * Y)	0.00029	0.00030	0.00030
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004

OAI22X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X3H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X3H7R	0.00152	0.00162	0.00152	0.00165	0.05879

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X3H7R	0.00000	0.32444	0.78785

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X3H7R	A0->Y (FR)	0.03511	0.18730	0.63981
	A1->Y (FR)	0.02948	0.18413	0.65507
	B0->Y (FR)	0.02533	0.17480	0.63008
	B1->Y (FR)	0.02149	0.17286	0.64637

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X3H7R	A0->Y (RF)	0.02593	0.13727	0.49515
	A1->Y (RF)	0.02342	0.13308	0.49129
	B0->Y (RF)	0.02076	0.13019	0.49991
	B1->Y (RF)	0.01818	0.12577	0.49591

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X3H7R	A0	0.00320	0.00328	0.00374
	A0	-0.00026	-0.00025	-0.00025
	A0	0.00031	0.00032	0.00032
	A0	-0.00002	0.00006	0.00050
	A1	0.00267	0.00283	0.00360
	A1	-0.00013	-0.00013	-0.00013
	A1	0.00031	0.00032	0.00032
	A1	-0.00006	0.00009	0.00084
	B0	0.00248	0.00259	0.00322
	B0	-0.00026	-0.00025	-0.00025
	B0	0.00010	0.00010	0.00011
	B0	-0.00006	0.00006	0.00066
	B1	0.00197	0.00215	0.00309
	B1	-0.00013	-0.00013	-0.00012
	B1	0.00010	0.00010	0.00011
	B1	-0.00022	-0.00003	0.00098

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X3H7R	A0	-0.00013	-0.00006	0.00033
	A0	0.00037	0.00038	0.00038
	A0	-0.00030	-0.00030	-0.00024
	A0	0.00295	0.00304	0.00340
	A1	-0.00014	-0.00004	0.00048
	A1	0.00025	0.00025	0.00026
	A1	-0.00030	-0.00030	-0.00030
	A1	0.00261	0.00270	0.00315
	B0	-0.00013	0.00000	0.00079
	B0	0.00037	0.00038	0.00038
	B0	-0.00011	-0.00010	-0.00010
	B0	0.00214	0.00233	0.00308
	B1	-0.00020	-0.00002	0.00096
	B1	0.00023	0.00025	0.00026
	B1	-0.00010	-0.00010	-0.00009
	B1	0.00188	0.00201	0.00286

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7R	(A1 * B1 * !Y)	-0.00027	-0.00024	-0.00019
	(A1 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	0.00050	0.00052	0.00054
	(A1 * B0 * !B1 * !Y)	-0.00027	-0.00024	-0.00019
	(A1 * B0 * !B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	0.00050	0.00052	0.00054
	(A1 * !B0 * !B1 * Y)	-0.00027	-0.00025	-0.00021
	(A1 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00050	0.00050	0.00050
	(!A1 * !B0 * !B1 * Y)	-0.00034	-0.00034	-0.00034
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !B1 * Y)	0.00045	0.00045	0.00045

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7R	(A1 * B1 * !Y)	0.00027	0.00028	0.00028
	(A1 * B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	-0.00050	-0.00050	-0.00050
	(A1 * B0 * !B1 * !Y)	0.00027	0.00028	0.00028
	(A1 * B0 * !B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !Y)	-0.00050	-0.00050	-0.00049
	(A1 * !B0 * !B1 * Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	-0.00050	-0.00049	-0.00049
	(!A1 * !B0 * !B1 * Y)	0.00034	0.00035	0.00036
	(!A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !B1 * Y)	-0.00044	-0.00041	-0.00037

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7R	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !Y)	0.00061	0.00062	0.00062
	(A0 * B0 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !Y)	0.00061	0.00061	0.00062
	(A0 * !B0 * !B1 * Y)	-0.00034	-0.00031	-0.00027
	(A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00002
	(A0 * !B0 * !B1 * Y)	0.00043	0.00043	0.00044
	(!A0 * !B0 * !B1 * Y)	-0.00040	-0.00040	-0.00040
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * Y)	0.00038	0.00038	0.00038

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7R	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !Y)	-0.00062	-0.00061	-0.00060
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00005	0.00005	0.00005
	(A0 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !Y)	-0.00062	-0.00061	-0.00061
	(A0 * !B0 * !B1 * Y)	0.00034	0.00034	0.00034
	(A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	-0.00043	-0.00043	-0.00042
	(!A0 * !B0 * !B1 * Y)	0.00040	0.00041	0.00042
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00037	-0.00035	-0.00031

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7R	(A1 * B1 * !Y)	-0.00027	-0.00024	-0.00019
	(A1 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	0.00048	0.00049	0.00052
	(A0 * !A1 * B1 * !Y)	-0.00027	-0.00024	-0.00019
	(A0 * !A1 * B1 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	0.00048	0.00049	0.00051
	(!A0 * !A1 * B1 * Y)	-0.00041	-0.00038	-0.00034
	(!A0 * !A1 * B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A1 * !B1 * Y)	-0.00046	-0.00046	-0.00045
	(!A0 * !A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * Y)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !B1 * Y)	0.00014	0.00014	0.00014

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7R	(A1 * B1 * !Y)	0.00027	0.00027	0.00028
	(A1 * B1 * !Y)	0.00003	0.00003	0.00003
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	-0.00048	-0.00048	-0.00048
	(A0 * !A1 * B1 * !Y)	0.00027	0.00027	0.00028
	(A0 * !A1 * B1 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !Y)	-0.00048	-0.00048	-0.00048
	(!A0 * !A1 * B1 * Y)	0.00040	0.00041	0.00041
	(!A0 * !A1 * B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B1 * Y)	0.00046	0.00046	0.00047
	(!A0 * !A1 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !B1 * Y)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7R	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00061	0.00062	0.00062
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00062	0.00062	0.00062
	(!A0 * !A1 * B0 * Y)	-0.00049	-0.00046	-0.00041
	(!A0 * !A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B0 * Y)	-0.00055	-0.00054	-0.00054
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !B0 * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B1 falling (conditional):

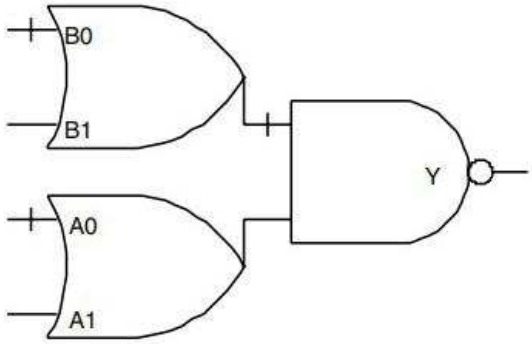
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X3H7R	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00062	-0.00062	-0.00061
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !Y)	-0.00062	-0.00062	-0.00061
	(!A0 * !A1 * B0 * Y)	0.00048	0.00049	0.00049
	(!A0 * !A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B0 * Y)	0.00054	0.00054	0.00055
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !B0 * Y)	-0.00008	-0.00008	-0.00008

OAI22X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X4H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X4H7R	0.00175	0.00187	0.00180	0.00190	0.07543

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X4H7R	0.00000	0.41321	1.00054

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X4H7R	A0->Y (FR)	0.03184	0.18466	0.64152
	A1->Y (FR)	0.02671	0.18172	0.65674
	B0->Y (FR)	0.02302	0.17322	0.63321
	B1->Y (FR)	0.01939	0.17133	0.64814

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X4H7R	A0->Y (RF)	0.02345	0.13345	0.49045
	A1->Y (RF)	0.02113	0.12948	0.48689
	B0->Y (RF)	0.01897	0.12711	0.49565
	B1->Y (RF)	0.01652	0.12282	0.49275

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X4H7R	A0	0.00371	0.00384	0.00444
	A0	-0.00034	-0.00034	-0.00033
	A0	0.00039	0.00039	0.00043
	A0	-0.00014	-0.00004	0.00054
	A1	0.00309	0.00331	0.00431
	A1	-0.00018	-0.00017	-0.00017
	A1	0.00041	0.00041	0.00041
	A1	-0.00017	0.00002	0.00099
	B0	0.00292	0.00306	0.00388
	B0	-0.00034	-0.00034	-0.00033
	B0	0.00013	0.00014	0.00015
	B0	-0.00025	-0.00010	0.00079
	B1	0.00231	0.00252	0.00375
	B1	-0.00018	-0.00017	-0.00015
	B1	0.00012	0.00014	0.00020
	B1	-0.00030	-0.00005	0.00126

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X4H7R	A0	-0.00019	-0.00010	0.00043
	A0	0.00049	0.00050	0.00051
	A0	-0.00042	-0.00039	-0.00039
	A0	0.00349	0.00365	0.00414
	A1	-0.00021	-0.00006	0.00064
	A1	0.00027	0.00034	0.00034
	A1	-0.00039	-0.00039	-0.00039
	A1	0.00309	0.00323	0.00385
	B0	-0.00019	-0.00002	0.00099
	B0	0.00049	0.00050	0.00050
	B0	-0.00014	-0.00014	-0.00012
	B0	0.00251	0.00282	0.00379
	B1	-0.00025	-0.00002	0.00125
	B1	0.00031	0.00034	0.00034
	B1	-0.00014	-0.00013	-0.00012
	B1	0.00212	0.00241	0.00353

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7R	(A1 * B1 * !Y)	-0.00033	-0.00030	-0.00024
	(A1 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B1 * !Y)	0.00056	0.00057	0.00060
	(A1 * B0 * !B1 * !Y)	-0.00033	-0.00030	-0.00024
	(A1 * B0 * !B1 * !Y)	-0.00004	-0.00004	-0.00003
	(A1 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !Y)	0.00056	0.00057	0.00060
	(A1 * !B0 * !B1 * Y)	-0.00034	-0.00031	-0.00026
	(A1 * !B0 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * Y)	0.00055	0.00055	0.00056
	(!A1 * !B0 * !B1 * Y)	-0.00041	-0.00041	-0.00041
	(!A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !B1 * Y)	0.00050	0.00050	0.00050

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7R	(A1 * B1 * !Y)	0.00034	0.00034	0.00035
	(A1 * B1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	-0.00056	-0.00056	-0.00055
	(A1 * B0 * !B1 * !Y)	0.00034	0.00034	0.00035
	(A1 * B0 * !B1 * !Y)	0.00003	0.00004	0.00004
	(A1 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !Y)	-0.00056	-0.00055	-0.00055
	(A1 * !B0 * !B1 * Y)	0.00033	0.00034	0.00034
	(A1 * !B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * Y)	-0.00055	-0.00055	-0.00055
	(!A1 * !B0 * !B1 * Y)	0.00042	0.00042	0.00044
	(!A1 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !B1 * Y)	-0.00049	-0.00046	-0.00040

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7R	(A0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !Y)	-0.00007	-0.00006	-0.00006
	(A0 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B1 * !Y)	0.00070	0.00070	0.00070
	(A0 * B0 * !B1 * !Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * B0 * !B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !B1 * !Y)	0.00070	0.00070	0.00070
	(A0 * !B0 * !B1 * Y)	-0.00041	-0.00038	-0.00033
	(A0 * !B0 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * !B1 * Y)	0.00049	0.00049	0.00050
	(!A0 * !B0 * !B1 * Y)	-0.00048	-0.00048	-0.00048
	(!A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !B1 * Y)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !B1 * Y)	0.00043	0.00044	0.00044

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7R	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00007	0.00007	0.00007
	(A0 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B1 * !Y)	-0.00070	-0.00070	-0.00069
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00007	0.00007	0.00007
	(A0 * B0 * !B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !B1 * !Y)	-0.00070	-0.00069	-0.00069
	(A0 * !B0 * !B1 * Y)	0.00041	0.00041	0.00041
	(A0 * !B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(A0 * !B0 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * !B1 * Y)	-0.00049	-0.00048	-0.00048
	(!A0 * !B0 * !B1 * Y)	0.00049	0.00049	0.00051
	(!A0 * !B0 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !B1 * Y)	-0.00042	-0.00039	-0.00035

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7R	(A1 * B1 * !Y)	-0.00034	-0.00030	-0.00025
	(A1 * B1 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * B1 * !Y)	0.00001	0.00001	0.00002
	(A1 * B1 * !Y)	0.00055	0.00056	0.00059
	(A0 * !A1 * B1 * !Y)	-0.00034	-0.00030	-0.00025
	(A0 * !A1 * B1 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * B1 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !Y)	0.00055	0.00056	0.00059
	(!A0 * !A1 * B1 * Y)	-0.00050	-0.00047	-0.00043
	(!A0 * !A1 * B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B1 * Y)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !B1 * Y)	-0.00057	-0.00056	-0.00055
	(!A0 * !A1 * !B1 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B1 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !B1 * Y)	0.00013	0.00014	0.00014

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7R	(A1 * B1 * !Y)	0.00034	0.00034	0.00035
	(A1 * B1 * !Y)	0.00004	0.00004	0.00004
	(A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !Y)	-0.00055	-0.00055	-0.00054
	(A0 * !A1 * B1 * !Y)	0.00034	0.00035	0.00035
	(A0 * !A1 * B1 * !Y)	0.00003	0.00004	0.00004
	(A0 * !A1 * B1 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !Y)	-0.00055	-0.00055	-0.00054
	(!A0 * !A1 * B1 * Y)	0.00050	0.00050	0.00050
	(!A0 * !A1 * B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B1 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B1 * Y)	0.00056	0.00056	0.00057
	(!A0 * !A1 * !B1 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B1 * Y)	-0.00013	-0.00013	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7R	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00007	-0.00007	-0.00006
	(A1 * B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !Y)	0.00070	0.00070	0.00070
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00070	0.00070	0.00070
	(!A0 * !A1 * B0 * Y)	-0.00057	-0.00053	-0.00048
	(!A0 * !A1 * B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * B0 * Y)	0.00006	0.00006	0.00006
	(!A0 * !A1 * B0 * Y)	0.00008	0.00008	0.00009
	(!A0 * !A1 * !B0 * Y)	-0.00064	-0.00063	-0.00063
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !B0 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B1 falling (conditional):

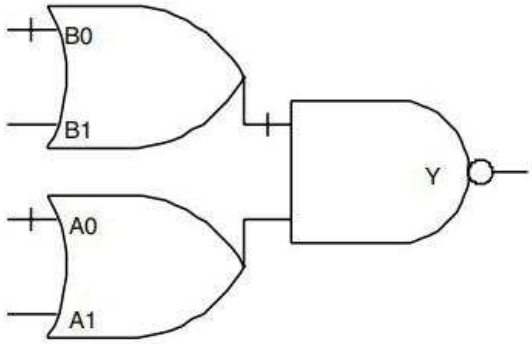
Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X4H7R	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00007	0.00007	0.00007
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00070	-0.00070	-0.00069
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00007	0.00007	0.00007
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !Y)	-0.00070	-0.00070	-0.00069
	(!A0 * !A1 * B0 * Y)	0.00057	0.00057	0.00057
	(!A0 * !A1 * B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * B0 * Y)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !B0 * Y)	0.00063	0.00064	0.00064
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !B0 * Y)	-0.00007	-0.00007	-0.00007

OAI22X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI22 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	Y
0	0	x	x	1
x	1	0	0	1
x	1	x	1	0
x	1	1	x	0
1	x	0	0	1
1	x	x	1	0
1	x	1	x	0

Footprint

Cell Name	Area
OAI22X6H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	**A1**	**B0**	**B1**	**Y**
OAI22X6H7R	0.00260	0.00272	0.00279	0.00273	0.11277

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI22X6H7R	0.00000	0.61981	1.50081

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X6H7R	A0->Y (FR)	0.02851	0.18178	0.64096
	A1->Y (FR)	0.02708	0.18199	0.65767
	B0->Y (FR)	0.02182	0.17196	0.63258
	B1->Y (FR)	0.01790	0.16979	0.64784

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI22X6H7R	A0->Y (RF)	0.02267	0.13277	0.49048
	A1->Y (RF)	0.02007	0.12831	0.48588
	B0->Y (RF)	0.01840	0.12681	0.49808
	B1->Y (RF)	0.01549	0.12177	0.49380

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X6H7R	A0	0.00555	0.00571	0.00663
	A0	-0.00051	-0.00051	-0.00050
	A0	0.00062	0.00062	0.00062
	A0	-0.00028	-0.00012	0.00079
	A1	0.00460	0.00492	0.00645
	A1	-0.00029	-0.00028	-0.00026
	A1	0.00061	0.00062	0.00062
	A1	-0.00028	0.00001	0.00149
	B0	0.00433	0.00456	0.00583
	B0	-0.00051	-0.00050	-0.00050
	B0	0.00019	0.00021	0.00022
	B0	-0.00041	-0.00019	0.00120
	B1	0.00335	0.00368	0.00558
	B1	-0.00027	-0.00026	-0.00026
	B1	0.00019	0.00020	0.00021
	B1	-0.00042	-0.00006	0.00199

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI22X6H7R	A0	-0.00034	-0.00020	0.00062
	A0	0.00073	0.00075	0.00075
	A0	-0.00059	-0.00059	-0.00058
	A0	0.00525	0.00548	0.00622
	A1	-0.00038	-0.00015	0.00097
	A1	0.00050	0.00051	0.00054
	A1	-0.00059	-0.00059	-0.00058
	A1	0.00452	0.00474	0.00571
	B0	-0.00040	-0.00013	0.00147
	B0	0.00074	0.00075	0.00076
	B0	-0.00021	-0.00020	-0.00016
	B0	0.00386	0.00426	0.00571
	B1	-0.00039	-0.00005	0.00194
	B1	0.00050	0.00051	0.00055
	B1	-0.00021	-0.00020	-0.00019
	B1	0.00304	0.00347	0.00522

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7R	(A1 * B1 * !Y)	-0.00050	-0.00045	-0.00037
	(A1 * B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B1 * !Y)	0.00085	0.00087	0.00091
	(A1 * B0 * !B1 * !Y)	-0.00050	-0.00045	-0.00037
	(A1 * B0 * !B1 * !Y)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * !Y)	0.00085	0.00087	0.00091
	(A1 * !B0 * !B1 * Y)	-0.00050	-0.00046	-0.00040
	(A1 * !B0 * !B1 * Y)	-0.00007	-0.00007	-0.00006
	(A1 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * Y)	0.00084	0.00084	0.00085
	(!A1 * !B0 * !B1 * Y)	-0.00061	-0.00061	-0.00061
	(!A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !B1 * Y)	0.00004	0.00005	0.00005
	(!A1 * !B0 * !B1 * Y)	0.00076	0.00077	0.00077

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7R	(A1 * B1 * !Y)	0.00051	0.00052	0.00052
	(A1 * B1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * !Y)	-0.00084	-0.00084	-0.00083
	(A1 * B0 * !B1 * !Y)	0.00051	0.00052	0.00052
	(A1 * B0 * !B1 * !Y)	0.00005	0.00005	0.00005
	(A1 * B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !B1 * !Y)	-0.00085	-0.00084	-0.00083
	(A1 * !B0 * !B1 * Y)	0.00049	0.00050	0.00050
	(A1 * !B0 * !B1 * Y)	0.00006	0.00007	0.00007
	(A1 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * Y)	-0.00084	-0.00084	-0.00084
	(!A1 * !B0 * !B1 * Y)	0.00061	0.00063	0.00065
	(!A1 * !B0 * !B1 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !B1 * Y)	-0.00005	-0.00005	-0.00004
	(!A1 * !B0 * !B1 * Y)	-0.00074	-0.00069	-0.00062

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7R	(A0 * B1 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * B1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * B1 * !Y)	0.00001	0.00002	0.00002
	(A0 * B1 * !Y)	0.00101	0.00101	0.00102
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * B0 * !B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !B1 * !Y)	0.00101	0.00101	0.00102
	(A0 * !B0 * !B1 * Y)	-0.00059	-0.00055	-0.00048
	(A0 * !B0 * !B1 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * !B1 * Y)	0.00073	0.00073	0.00074
	(!A0 * !B0 * !B1 * Y)	-0.00071	-0.00070	-0.00070
	(!A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !B1 * Y)	0.00004	0.00004	0.00004
	(!A0 * !B0 * !B1 * Y)	0.00064	0.00065	0.00065

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7R	(A0 * B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B1 * !Y)	0.00011	0.00011	0.00011
	(A0 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A0 * B1 * !Y)	-0.00101	-0.00101	-0.00100
	(A0 * B0 * !B1 * !Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !B1 * !Y)	0.00010	0.00011	0.00011
	(A0 * B0 * !B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !B1 * !Y)	-0.00101	-0.00101	-0.00100
	(A0 * !B0 * !B1 * Y)	0.00059	0.00059	0.00059
	(A0 * !B0 * !B1 * Y)	0.00006	0.00006	0.00006
	(A0 * !B0 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * !B1 * Y)	-0.00072	-0.00072	-0.00071
	(!A0 * !B0 * !B1 * Y)	0.00071	0.00072	0.00074
	(!A0 * !B0 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !B1 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !B0 * !B1 * Y)	-0.00063	-0.00058	-0.00051

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7R	(A1 * B1 * !Y)	-0.00052	-0.00047	-0.00038
	(A1 * B1 * !Y)	-0.00006	-0.00006	-0.00005
	(A1 * B1 * !Y)	0.00001	0.00002	0.00002
	(A1 * B1 * !Y)	0.00085	0.00088	0.00093
	(A0 * !A1 * B1 * !Y)	-0.00052	-0.00047	-0.00038
	(A0 * !A1 * B1 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B1 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !Y)	0.00085	0.00088	0.00093
	(!A0 * !A1 * B1 * Y)	-0.00076	-0.00071	-0.00065
	(!A0 * !A1 * B1 * Y)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * B1 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B1 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * !B1 * Y)	-0.00088	-0.00087	-0.00086
	(!A0 * !A1 * !B1 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B1 * Y)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !B1 * Y)	0.00021	0.00021	0.00022

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7R	(A1 * B1 * !Y)	0.00054	0.00055	0.00055
	(A1 * B1 * !Y)	0.00005	0.00006	0.00006
	(A1 * B1 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B1 * !Y)	-0.00085	-0.00085	-0.00084
	(A0 * !A1 * B1 * !Y)	0.00055	0.00055	0.00055
	(A0 * !A1 * B1 * !Y)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !Y)	-0.00085	-0.00085	-0.00084
	(!A0 * !A1 * B1 * Y)	0.00075	0.00076	0.00076
	(!A0 * !A1 * B1 * Y)	0.00007	0.00007	0.00007
	(!A0 * !A1 * B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B1 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B1 * Y)	0.00087	0.00088	0.00088
	(!A0 * !A1 * !B1 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B1 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !B1 * Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7R	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00010	-0.00010	-0.00009
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	0.00099	0.00100	0.00101
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00010	-0.00010	-0.00009
	(A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !Y)	0.00100	0.00100	0.00100
	(!A0 * !A1 * B0 * Y)	-0.00082	-0.00076	-0.00068
	(!A0 * !A1 * B0 * Y)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * B0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !A1 * B0 * Y)	0.00010	0.00011	0.00012
	(!A0 * !A1 * !B0 * Y)	-0.00093	-0.00092	-0.00091
	(!A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * Y)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !B0 * Y)	0.00009	0.00009	0.00010

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI22X6H7R	(A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00010	0.00010	0.00010
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * B0 * !Y)	-0.00101	-0.00100	-0.00099
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00010	0.00010	0.00010
	(A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !Y)	-0.00100	-0.00100	-0.00099
	(!A0 * !A1 * B0 * Y)	0.00082	0.00082	0.00083
	(!A0 * !A1 * B0 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * B0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * B0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !B0 * Y)	0.00092	0.00092	0.00093
	(!A0 * !A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00010	-0.00009	-0.00009
	(!A0 * !A1 * !B0 * Y)	-0.00009	-0.00009	-0.00009

OAI2BB1X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X0P5H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X0P5H7R	0.00071	0.00077	0.00065	0.03446

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X0P5H7R	0.00000	0.16663	0.23160

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X0P5H7R	A0->YN (RR)	0.04493	0.16370	0.45162
	A1->YN (RR)	0.04430	0.16242	0.44755
	B0->YN (FR)	0.01710	0.15572	0.60591

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X0P5H7R	A0->YN (FF)	0.04346	0.19277	0.56170
	A1->YN (FF)	0.04237	0.18963	0.55631
	B0->YN (RF)	0.02082	0.17583	0.65812

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7R	A0	0.00044	0.00054	0.00079
	A0	-0.00000	0.00000	0.00000
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00111	0.00120	0.00145
	A1	0.00044	0.00055	0.00088
	A1	-0.00000	0.00000	0.00000
	A1	-0.00000	0.00000	0.00000
	A1	0.00102	0.00113	0.00147
	B0	0.00037	0.00047	0.00086
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00005	0.00005	0.00005
	B0	-0.00009	-0.00003	0.00034

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7R	A0	0.00113	0.00125	0.00159
	A0	0.00000	0.00000	0.00000
	A0	0.00004	0.00004	0.00004
	A0	0.00047	0.00059	0.00094
	A1	0.00106	0.00118	0.00156
	A1	-0.00000	0.00000	0.00000
	A1	-0.00000	0.00000	0.00000
	A1	0.00048	0.00060	0.00098
	B0	0.00009	0.00013	0.00040
	B0	0.00004	0.00005	0.00005
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00059	0.00064	0.00092

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7R	(A1 * !B0 * YN)	0.00014	0.00020	0.00044
	(A1 * !B0 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * YN)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * YN)	0.00095	0.00101	0.00125
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00015	-0.00014	-0.00014
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00014	0.00015	0.00015

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7R	(A1 * !B0 * YN)	0.00079	0.00088	0.00121
	(A1 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * YN)	0.00007	0.00007	0.00007
	(A1 * !B0 * YN)	-0.00001	0.00008	0.00041
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00015	0.00015	0.00016
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00015	-0.00014	-0.00013

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7R	(A0 * !B0 * YN)	0.00013	0.00022	0.00055
	(A0 * !B0 * YN)	0.00005	0.00005	0.00005
	(A0 * !B0 * YN)	-0.00004	-0.00003	-0.00003
	(A0 * !B0 * YN)	0.00085	0.00094	0.00128
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00002	0.00002	0.00003
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00004	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7R	(A0 * !B0 * YN)	0.00072	0.00082	0.00120
	(A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * YN)	0.00003	0.00004	0.00004
	(A0 * !B0 * YN)	-0.00001	0.00010	0.00047
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00022	0.00022	0.00022
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00005	-0.00005	-0.00004

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7R	(A0 * A1 * YN)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * YN)	0.00021	0.00022	0.00022

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P5H7R	(A0 * A1 * YN)	0.00012	0.00012	0.00013
	(A0 * A1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * YN)	-0.00021	-0.00021	-0.00020

OAI2BB1X0P7H7R

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X0P7H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X0P7H7R	0.00065	0.00076	0.00071	0.03916

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X0P7H7R	0.00000	0.17767	0.24936

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X0P7H7R	A0->YN (RR)	0.04436	0.16416	0.45490
	A1->YN (RR)	0.04421	0.16340	0.45063
	B0->YN (FR)	0.01666	0.15558	0.60831

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X0P7H7R	A0->YN (FF)	0.04229	0.19224	0.56281
	A1->YN (FF)	0.04160	0.18954	0.55732
	B0->YN (RF)	0.02017	0.17529	0.65881

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7R	A0	0.00049	0.00058	0.00083
	A0	-0.00001	-0.00001	-0.00000
	A0	-0.00004	-0.00003	-0.00003
	A0	0.00114	0.00123	0.00147
	A1	0.00048	0.00059	0.00091
	A1	-0.00001	-0.00001	-0.00000
	A1	0.00000	0.00000	0.00001
	A1	0.00104	0.00116	0.00148
	B0	0.00045	0.00056	0.00099
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00006	0.00006	0.00006
	B0	-0.00007	-0.00000	0.00041

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7R	A0	0.00115	0.00126	0.00160
	A0	0.00001	0.00001	0.00001
	A0	0.00003	0.00003	0.00004
	A0	0.00051	0.00062	0.00096
	A1	0.00109	0.00121	0.00158
	A1	0.00001	0.00001	0.00001
	A1	-0.00000	-0.00000	0.00000
	A1	0.00052	0.00064	0.00104
	B0	0.00007	0.00012	0.00041
	B0	0.00005	0.00005	0.00005
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00063	0.00070	0.00100

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7R	(A1 * !B0 * YN)	0.00014	0.00020	0.00043
	(A1 * !B0 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * YN)	-0.00008	-0.00008	-0.00007
	(A1 * !B0 * YN)	0.00095	0.00101	0.00125
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00018	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7R	(A1 * !B0 * YN)	0.00083	0.00093	0.00125
	(A1 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * YN)	0.00007	0.00008	0.00008
	(A1 * !B0 * YN)	0.00002	0.00012	0.00044
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00013	0.00013	0.00014
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7R	(A0 * !B0 * YN)	0.00012	0.00021	0.00053
	(A0 * !B0 * YN)	0.00005	0.00005	0.00005
	(A0 * !B0 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * YN)	0.00086	0.00095	0.00127
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7R	(A0 * !B0 * YN)	0.00078	0.00088	0.00124
	(A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * YN)	0.00004	0.00004	0.00004
	(A0 * !B0 * YN)	0.00004	0.00014	0.00050
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00022	0.00022	0.00022
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7R	(A0 * A1 * YN)	-0.00014	-0.00014	-0.00014
	(A0 * A1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * YN)	0.00023	0.00023	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X0P7H7R	(A0 * A1 * YN)	0.00014	0.00014	0.00015
	(A0 * A1 * YN)	0.00000	0.00000	0.00001
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * YN)	-0.00023	-0.00022	-0.00022

OAI2BB1X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X1H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X1H7R	0.00070	0.00079	0.00076	0.04595

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X1H7R	0.00000	0.19407	0.27432

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X1H7R	A0->YN (RR)	0.04326	0.16230	0.44993
	A1->YN (RR)	0.04282	0.16132	0.44587
	B0->YN (FR)	0.01472	0.15186	0.60361

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X1H7R	A0->YN (FF)	0.04099	0.19182	0.56405
	A1->YN (FF)	0.04002	0.18887	0.55826
	B0->YN (RF)	0.01808	0.17347	0.65912

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X1H7R	A0	0.00052	0.00061	0.00087
	A0	-0.00002	-0.00002	-0.00001
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00115	0.00125	0.00149
	A1	0.00051	0.00063	0.00096
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00000	0.00001	0.00001
	A1	0.00106	0.00118	0.00151
	B0	0.00045	0.00057	0.00107
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00007	0.00007	0.00007
	B0	-0.00012	-0.00004	0.00044

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X1H7R	A0	0.00118	0.00130	0.00163
	A0	0.00002	0.00002	0.00002
	A0	0.00003	0.00003	0.00003
	A0	0.00055	0.00067	0.00101
	A1	0.00111	0.00124	0.00161
	A1	0.00002	0.00002	0.00002
	A1	-0.00001	-0.00001	-0.00000
	A1	0.00055	0.00068	0.00108
	B0	0.00010	0.00015	0.00051
	B0	0.00006	0.00006	0.00006
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00071	0.00077	0.00114

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7R	(A1 * !B0 * YN)	0.00018	0.00024	0.00047
	(A1 * !B0 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * YN)	-0.00008	-0.00008	-0.00008
	(A1 * !B0 * YN)	0.00099	0.00105	0.00129
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00014	-0.00014	-0.00014
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00015	0.00015	0.00015

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7R	(A1 * !B0 * YN)	0.00081	0.00089	0.00122
	(A1 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * YN)	0.00008	0.00008	0.00008
	(A1 * !B0 * YN)	-0.00001	0.00009	0.00041
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00014	0.00015	0.00015
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00015	-0.00014	-0.00014

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7R	(A0 * !B0 * YN)	0.00016	0.00025	0.00057
	(A0 * !B0 * YN)	0.00005	0.00005	0.00005
	(A0 * !B0 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * YN)	0.00090	0.00099	0.00131
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00023	-0.00023	-0.00022
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00005	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7R	(A0 * !B0 * YN)	0.00074	0.00084	0.00120
	(A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * YN)	0.00004	0.00004	0.00005
	(A0 * !B0 * YN)	-0.00000	0.00010	0.00046
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00022	0.00023	0.00023
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7R	(A0 * A1 * YN)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * YN)	0.00024	0.00024	0.00025

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1H7R	(A0 * A1 * YN)	0.00015	0.00016	0.00016
	(A0 * A1 * YN)	0.00000	0.00000	0.00001
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * YN)	-0.00024	-0.00023	-0.00023

OAI2BB1X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X1P4H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X1P4H7R	0.00068	0.00075	0.00083	0.05270

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X1P4H7R	0.00000	0.20947	0.29908

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X1P4H7R	A0->YN (RR)	0.04330	0.16373	0.45464
	A1->YN (RR)	0.04307	0.16310	0.45181
	B0->YN (FR)	0.01436	0.15205	0.60562

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X1P4H7R	A0->YN (FF)	0.04050	0.19228	0.56653
	A1->YN (FF)	0.03977	0.18958	0.56132
	B0->YN (RF)	0.01757	0.17297	0.65755

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7R	A0	0.00059	0.00068	0.00094
	A0	-0.00003	-0.00003	-0.00002
	A0	-0.00003	-0.00003	-0.00003
	A0	0.00121	0.00130	0.00154
	A1	0.00057	0.00070	0.00103
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00000	0.00001	0.00001
	A1	0.00110	0.00122	0.00156
	B0	0.00053	0.00068	0.00124
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00008	0.00008	0.00008
	B0	-0.00010	-0.00001	0.00053

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7R	A0	0.00120	0.00132	0.00167
	A0	0.00003	0.00003	0.00003
	A0	0.00003	0.00003	0.00003
	A0	0.00059	0.00071	0.00106
	A1	0.00114	0.00127	0.00164
	A1	0.00003	0.00003	0.00003
	A1	-0.00001	-0.00001	-0.00000
	A1	0.00062	0.00075	0.00112
	B0	0.00008	0.00014	0.00055
	B0	0.00007	0.00007	0.00008
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00070	0.00084	0.00126

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7R	(A1 * !B0 * YN)	0.00018	0.00024	0.00047
	(A1 * !B0 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * YN)	-0.00008	-0.00008	-0.00008
	(A1 * !B0 * YN)	0.00102	0.00108	0.00131
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00013	-0.00013	-0.00013
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7R	(A1 * !B0 * YN)	0.00084	0.00093	0.00125
	(A1 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * YN)	0.00008	0.00008	0.00008
	(A1 * !B0 * YN)	0.00001	0.00010	0.00042
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00013	0.00013	0.00014
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00019	-0.00019	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7R	(A0 * !B0 * YN)	0.00017	0.00026	0.00057
	(A0 * !B0 * YN)	0.00005	0.00005	0.00005
	(A0 * !B0 * YN)	-0.00005	-0.00004	-0.00004
	(A0 * !B0 * YN)	0.00091	0.00100	0.00132
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00001	0.00002	0.00003
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00006	0.00007	0.00008

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7R	(A0 * !B0 * YN)	0.00078	0.00088	0.00124
	(A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * YN)	0.00004	0.00005	0.00005
	(A0 * !B0 * YN)	0.00003	0.00013	0.00049
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00022	0.00022	0.00022
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7R	(A0 * A1 * YN)	-0.00018	-0.00017	-0.00017
	(A0 * A1 * YN)	-0.00000	-0.00001	-0.00000
	(A0 * A1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * YN)	0.00025	0.00026	0.00026

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X1P4H7R	(A0 * A1 * YN)	0.00018	0.00018	0.00019
	(A0 * A1 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * YN)	-0.00025	-0.00025	-0.00024

OAI2BB1X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X2H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X2H7R	0.00074	0.00076	0.00094	0.06331

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X2H7R	0.00000	0.23269	0.33809

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X2H7R	A0->YN (RR)	0.04567	0.16953	0.46784
	A1->YN (RR)	0.04490	0.16856	0.46491
	B0->YN (FR)	0.01404	0.15411	0.61414

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X2H7R	A0->YN (FF)	0.04204	0.19527	0.57226
	A1->YN (FF)	0.04084	0.19223	0.56688
	B0->YN (RF)	0.01708	0.17266	0.65986

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X2H7R	A0	0.00075	0.00085	0.00113
	A0	-0.00004	-0.00004	-0.00004
	A0	-0.00002	-0.00002	-0.00001
	A0	0.00134	0.00145	0.00168
	A1	0.00075	0.00087	0.00122
	A1	-0.00005	-0.00004	-0.00004
	A1	0.00001	0.00002	0.00002
	A1	0.00122	0.00135	0.00170
	B0	0.00059	0.00080	0.00145
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00010	0.00010	0.00010
	B0	-0.00010	0.00000	0.00063

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X2H7R	A0	0.00131	0.00144	0.00179
	A0	0.00004	0.00004	0.00004
	A0	0.00002	0.00002	0.00002
	A0	0.00072	0.00085	0.00119
	A1	0.00123	0.00137	0.00174
	A1	0.00004	0.00004	0.00005
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00076	0.00089	0.00127
	B0	0.00013	0.00020	0.00067
	B0	0.00009	0.00009	0.00009
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00093	0.00102	0.00150

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7R	(A1 * !B0 * YN)	0.00025	0.00031	0.00053
	(A1 * !B0 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * YN)	-0.00009	-0.00009	-0.00008
	(A1 * !B0 * YN)	0.00110	0.00116	0.00138
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00015	-0.00015	-0.00014
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00018	0.00018	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7R	(A1 * !B0 * YN)	0.00085	0.00093	0.00124
	(A1 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * YN)	0.00009	0.00009	0.00009
	(A1 * !B0 * YN)	-0.00000	0.00009	0.00040
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00015	0.00015	0.00015
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00018	-0.00017	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7R	(A0 * !B0 * YN)	0.00024	0.00033	0.00063
	(A0 * !B0 * YN)	0.00005	0.00005	0.00005
	(A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * YN)	0.00098	0.00106	0.00137
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00001	0.00002	0.00003
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00005	0.00006	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7R	(A0 * !B0 * YN)	0.00077	0.00087	0.00122
	(A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * YN)	0.00005	0.00005	0.00005
	(A0 * !B0 * YN)	0.00004	0.00013	0.00048
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00021	0.00021	0.00021
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7R	(A0 * A1 * YN)	-0.00021	-0.00020	-0.00020
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * YN)	0.00029	0.00029	0.00029

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X2H7R	(A0 * A1 * YN)	0.00021	0.00021	0.00022
	(A0 * A1 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * YN)	-0.00028	-0.00027	-0.00026

OAI2BB1X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X3H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X3H7R	0.00080	0.00084	0.00157	0.09612

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X3H7R	0.00000	0.34419	0.51769

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X3H7R	A0->YN (RR)	0.04507	0.16953	0.46743
	A1->YN (RR)	0.04388	0.16793	0.46295
	B0->YN (FR)	0.01350	0.15118	0.60517

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X3H7R	A0->YN (FF)	0.04067	0.19549	0.57515
	A1->YN (FF)	0.03927	0.19234	0.56903
	B0->YN (RF)	0.01761	0.17236	0.65753

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X3H7R	A0	0.00111	0.00126	0.00163
	A0	-0.00007	-0.00007	-0.00006
	A0	-0.00003	-0.00002	-0.00000
	A0	0.00171	0.00187	0.00217
	A1	0.00111	0.00129	0.00179
	A1	-0.00007	-0.00007	-0.00006
	A1	0.00002	0.00003	0.00003
	A1	0.00157	0.00176	0.00225
	B0	0.00103	0.00131	0.00236
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00015	0.00015	0.00015
	B0	-0.00019	-0.00002	0.00100

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X3H7R	A0	0.00182	0.00199	0.00248
	A0	0.00007	0.00007	0.00007
	A0	0.00002	0.00003	0.00003
	A0	0.00123	0.00139	0.00188
	A1	0.00171	0.00189	0.00240
	A1	0.00006	0.00007	0.00007
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00125	0.00143	0.00194
	B0	0.00028	0.00039	0.00115
	B0	0.00013	0.00013	0.00014
	B0	-0.00015	-0.00015	-0.00015
	B0	0.00159	0.00176	0.00254

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7R	(A1 * !B0 * YN)	0.00040	0.00047	0.00073
	(A1 * !B0 * YN)	0.00007	0.00007	0.00007
	(A1 * !B0 * YN)	-0.00013	-0.00013	-0.00012
	(A1 * !B0 * YN)	0.00142	0.00149	0.00175
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00019	0.00019	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7R	(A1 * !B0 * YN)	0.00110	0.00121	0.00159
	(A1 * !B0 * YN)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * YN)	0.00013	0.00013	0.00013
	(A1 * !B0 * YN)	0.00008	0.00019	0.00057
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00018	0.00018	0.00019
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00000	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00018	-0.00018	-0.00017

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7R	(A0 * !B0 * YN)	0.00039	0.00050	0.00088
	(A0 * !B0 * YN)	0.00007	0.00007	0.00007
	(A0 * !B0 * YN)	-0.00008	-0.00007	-0.00007
	(A0 * !B0 * YN)	0.00127	0.00138	0.00176
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00025	-0.00024	-0.00024
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00002	0.00003	0.00003
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00004	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7R	(A0 * !B0 * YN)	0.00099	0.00111	0.00154
	(A0 * !B0 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * !B0 * YN)	0.00008	0.00008	0.00008
	(A0 * !B0 * YN)	0.00011	0.00022	0.00065
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00024	0.00025	0.00025
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00000	0.00000	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00005	-0.00005	-0.00004

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7R	(A0 * A1 * YN)	-0.00033	-0.00033	-0.00033
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * YN)	0.00001	0.00002	0.00002
	(A0 * A1 * YN)	0.00049	0.00049	0.00050

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X3H7R	(A0 * A1 * YN)	0.00034	0.00034	0.00035
	(A0 * A1 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * YN)	-0.00049	-0.00047	-0.00044

OAI2BB1X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X4H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X4H7R	0.00088	0.00092	0.00182	0.12434

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X4H7R	0.00000	0.42498	0.64145

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X4H7R	A0->YN (RR)	0.04269	0.16799	0.46755
	A1->YN (RR)	0.04146	0.16620	0.46244
	B0->YN (FR)	0.01241	0.15092	0.60910

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X4H7R	A0->YN (FF)	0.03906	0.19486	0.57643
	A1->YN (FF)	0.03761	0.19164	0.56994
	B0->YN (RF)	0.01603	0.17065	0.65840

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X4H7R	A0	0.00129	0.00146	0.00185
	A0	-0.00011	-0.00010	-0.00007
	A0	-0.00003	-0.00002	-0.00001
	A0	0.00191	0.00208	0.00245
	A1	0.00129	0.00150	0.00211
	A1	-0.00011	-0.00010	-0.00010
	A1	0.00002	0.00004	0.00005
	A1	0.00173	0.00195	0.00256
	B0	0.00121	0.00155	0.00289
	B0	-0.00018	-0.00017	-0.00016
	B0	0.00020	0.00020	0.00020
	B0	-0.00025	-0.00004	0.00126

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X4H7R	A0	0.00205	0.00224	0.00283
	A0	0.00007	0.00011	0.00015
	A0	0.00002	0.00002	0.00003
	A0	0.00144	0.00163	0.00222
	A1	0.00192	0.00212	0.00274
	A1	0.00010	0.00011	0.00012
	A1	-0.00004	-0.00004	-0.00002
	A1	0.00148	0.00167	0.00229
	B0	0.00031	0.00045	0.00145
	B0	0.00017	0.00018	0.00018
	B0	-0.00020	-0.00020	-0.00020
	B0	0.00193	0.00209	0.00311

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7R	(A1 * !B0 * YN)	0.00047	0.00055	0.00085
	(A1 * !B0 * YN)	0.00008	0.00008	0.00008
	(A1 * !B0 * YN)	-0.00016	-0.00015	-0.00015
	(A1 * !B0 * YN)	0.00162	0.00170	0.00199
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00020	-0.00019	-0.00019
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00021	0.00021	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7R	(A1 * !B0 * YN)	0.00121	0.00133	0.00176
	(A1 * !B0 * YN)	-0.00008	-0.00008	-0.00008
	(A1 * !B0 * YN)	0.00015	0.00015	0.00016
	(A1 * !B0 * YN)	0.00008	0.00020	0.00063
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00020	0.00020	0.00021
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7R	(A0 * !B0 * YN)	0.00047	0.00059	0.00102
	(A0 * !B0 * YN)	0.00008	0.00008	0.00008
	(A0 * !B0 * YN)	-0.00010	-0.00010	-0.00009
	(A0 * !B0 * YN)	0.00145	0.00156	0.00200
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00027	-0.00027	-0.00027
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00002	0.00003	0.00004
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00004	0.00005	0.00005

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7R	(A0 * !B0 * YN)	0.00109	0.00122	0.00170
	(A0 * !B0 * YN)	-0.00008	-0.00008	-0.00008
	(A0 * !B0 * YN)	0.00010	0.00010	0.00010
	(A0 * !B0 * YN)	0.00011	0.00024	0.00072
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00027	0.00027	0.00027
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00000	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00005	-0.00005	-0.00004

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7R	(A0 * A1 * YN)	-0.00041	-0.00041	-0.00041
	(A0 * A1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * YN)	0.00002	0.00002	0.00003
	(A0 * A1 * YN)	0.00054	0.00054	0.00055

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X4H7R	(A0 * A1 * YN)	0.00041	0.00042	0.00044
	(A0 * A1 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * A1 * YN)	-0.00054	-0.00052	-0.00049

OAI2BB1X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB1 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and an additional non-inverted input (B0). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A0	A1	B0	YN
x	x	0	1
0	x	1	0
1	0	1	0
1	1	1	1

Footprint

Cell Name	Area
OAI2BB1X6H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1	B0	YN
OAI2BB1X6H7R	0.00097	0.00100	0.00269	0.18714

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB1X6H7R	0.00000	0.59734	0.92024

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X6H7R	A0->YN (RR)	0.04479	0.17304	0.47868
	A1->YN (RR)	0.04338	0.17114	0.47260
	B0->YN (FR)	0.01153	0.15005	0.60994

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB1X6H7R	A0->YN (FF)	0.04010	0.19846	0.58418
	A1->YN (FF)	0.03858	0.19522	0.57820
	B0->YN (RF)	0.01494	0.16971	0.65728

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X6H7R	A0	0.00193	0.00215	0.00268
	A0	-0.00018	-0.00017	-0.00013
	A0	-0.00001	-0.00001	0.00001
	A0	0.00251	0.00272	0.00325
	A1	0.00193	0.00219	0.00307
	A1	-0.00018	-0.00018	-0.00017
	A1	0.00006	0.00006	0.00007
	A1	0.00229	0.00257	0.00344
	B0	0.00169	0.00224	0.00431
	B0	-0.00027	-0.00026	-0.00026
	B0	0.00030	0.00030	0.00030
	B0	-0.00045	-0.00012	0.00187

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB1X6H7R	A0	0.00262	0.00289	0.00371
	A0	0.00013	0.00018	0.00022
	A0	0.00000	0.00001	0.00001
	A0	0.00209	0.00234	0.00315
	A1	0.00247	0.00274	0.00359
	A1	0.00017	0.00018	0.00020
	A1	-0.00006	-0.00006	-0.00004
	A1	0.00211	0.00237	0.00322
	B0	0.00042	0.00064	0.00223
	B0	0.00026	0.00026	0.00027
	B0	-0.00030	-0.00030	-0.00030
	B0	0.00272	0.00307	0.00471

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7R	(A1 * !B0 * YN)	0.00073	0.00082	0.00114
	(A1 * !B0 * YN)	0.00010	0.00011	0.00011
	(A1 * !B0 * YN)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * YN)	0.00208	0.00217	0.00249
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00023	-0.00023	-0.00023
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00022	0.00022	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7R	(A1 * !B0 * YN)	0.00144	0.00157	0.00205
	(A1 * !B0 * YN)	-0.00011	-0.00010	-0.00010
	(A1 * !B0 * YN)	0.00021	0.00021	0.00022
	(A1 * !B0 * YN)	0.00009	0.00022	0.00071
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00023	0.00023	0.00024
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00001	-0.00001	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * YN)	-0.00021	-0.00020	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7R	(A0 * !B0 * YN)	0.00073	0.00086	0.00135
	(A0 * !B0 * YN)	0.00010	0.00011	0.00011
	(A0 * !B0 * YN)	-0.00014	-0.00014	-0.00013
	(A0 * !B0 * YN)	0.00188	0.00202	0.00251
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00030	-0.00030	-0.00030
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00002	0.00003	0.00004
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00005	0.00005	0.00006

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7R	(A0 * !B0 * YN)	0.00128	0.00143	0.00196
	(A0 * !B0 * YN)	-0.00011	-0.00010	-0.00010
	(A0 * !B0 * YN)	0.00014	0.00014	0.00015
	(A0 * !B0 * YN)	0.00012	0.00026	0.00080
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00030	0.00030	0.00031
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * YN)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7R	(A0 * A1 * YN)	-0.00061	-0.00061	-0.00060
	(A0 * A1 * YN)	-0.00002	-0.00002	-0.00000
	(A0 * A1 * YN)	0.00003	0.00003	0.00004
	(A0 * A1 * YN)	0.00081	0.00082	0.00082

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB1X6H7R	(A0 * A1 * YN)	0.00062	0.00063	0.00067
	(A0 * A1 * YN)	0.00000	0.00002	0.00003
	(A0 * A1 * YN)	-0.00004	-0.00003	-0.00003
	(A0 * A1 * YN)	-0.00080	-0.00077	-0.00072

OAI2BB2X0P5H7R

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X0P5H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X0P5H7R	0.00078	0.00069	0.00068	0.00073	0.02172

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X0P5H7R	0.00000	0.18112	0.31052

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X0P5H7R	A0->YN (RR)	0.04678	0.13204	0.32958
	A1->YN (RR)	0.04720	0.13300	0.33357
	B0->YN (FR)	0.03829	0.19226	0.64670
	B1->YN (FR)	0.03695	0.19379	0.66553

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X0P5H7R	A0->YN (FF)	0.04707	0.15269	0.40836
	A1->YN (FF)	0.04798	0.15564	0.41362
	B0->YN (RF)	0.02782	0.13970	0.50082
	B1->YN (RF)	0.02632	0.13693	0.49905

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7R	A0	0.00062	0.00073	0.00104
	A0	-0.00000	0.00000	0.00001
	A0	-0.00000	0.00000	0.00001
	A0	0.00107	0.00118	0.00150
	A1	0.00063	0.00071	0.00096
	A1	0.00000	0.00000	0.00000
	A1	-0.00004	-0.00004	-0.00004
	A1	0.00116	0.00125	0.00149
	B0	0.00071	0.00076	0.00095
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00007	0.00007	0.00007
	B0	0.00001	0.00005	0.00023
	B1	0.00063	0.00069	0.00097
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00007	0.00007	0.00007
	B1	0.00002	0.00008	0.00035

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7R	A0	0.00112	0.00124	0.00160
	A0	0.00004	0.00004	0.00005
	A0	-0.00000	0.00000	0.00001
	A0	0.00065	0.00077	0.00114
	A1	0.00119	0.00129	0.00163
	A1	0.00004	0.00004	0.00004
	A1	0.00004	0.00004	0.00004
	A1	0.00065	0.00075	0.00109
	B0	0.00015	0.00017	0.00031
	B0	0.00009	0.00009	0.00009
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00084	0.00088	0.00103
	B1	0.00012	0.00016	0.00032
	B1	0.00004	0.00005	0.00005
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00075	0.00078	0.00096

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7R	(A1 * !B0 * !B1 * YN)	0.00013	0.00022	0.00054
	(A1 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00086	0.00095	0.00127
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7R	(A1 * !B0 * !B1 * YN)	0.00079	0.00089	0.00126
	(A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * YN)	0.00006	0.00016	0.00052
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00021	0.00021	0.00021
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7R	(A0 * !B0 * !B1 * YN)	0.00014	0.00020	0.00043
	(A0 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A0 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * !B0 * !B1 * YN)	0.00096	0.00102	0.00125
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7R	(A0 * !B0 * !B1 * YN)	0.00086	0.00095	0.00127
	(A0 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * !B1 * YN)	0.00007	0.00007	0.00007
	(A0 * !B0 * !B1 * YN)	0.00005	0.00014	0.00046
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00013	0.00013	0.00014
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00018	-0.00017	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7R	(A0 * A1 * B1 * YN)	-0.00008	-0.00007	-0.00006
	(A0 * A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * B1 * YN)	0.00023	0.00023	0.00023
	(A0 * A1 * !B1 * YN)	-0.00009	-0.00009	-0.00009
	(A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	0.00021	0.00022	0.00022
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00020	0.00021	0.00021

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7R	(A0 * A1 * B1 * YN)	0.00008	0.00008	0.00008
	(A0 * A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * YN)	-0.00023	-0.00023	-0.00023
	(A0 * A1 * !B1 * YN)	0.00009	0.00010	0.00010
	(A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * YN)	-0.00021	-0.00021	-0.00019
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00020	-0.00020	-0.00020

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7R	(A0 * A1 * B0 * YN)	-0.00011	-0.00010	-0.00009
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * YN)	0.00024	0.00024	0.00024
	(A0 * A1 * !B0 * YN)	-0.00012	-0.00012	-0.00012
	(A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * YN)	0.00022	0.00022	0.00022
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00024	0.00024	0.00025

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P5H7R	(A0 * A1 * B0 * YN)	0.00011	0.00011	0.00011
	(A0 * A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * YN)	-0.00024	-0.00024	-0.00023
	(A0 * A1 * !B0 * YN)	0.00012	0.00012	0.00013
	(A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * YN)	-0.00022	-0.00021	-0.00020
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00025	-0.00024	-0.00024

OAI2BB2X0P7H7R

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X0P7H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X0P7H7R	0.00078	0.00069	0.00072	0.00076	0.02461

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X0P7H7R	0.00000	0.19420	0.32776

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X0P7H7R	A0->YN (RR)	0.04605	0.13196	0.33081
	A1->YN (RR)	0.04646	0.13287	0.33434
	B0->YN (FR)	0.03566	0.19014	0.64735
	B1->YN (FR)	0.03411	0.19124	0.66523

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X0P7H7R	A0->YN (FF)	0.04589	0.15195	0.40830
	A1->YN (FF)	0.04682	0.15488	0.41360
	B0->YN (RF)	0.02603	0.13765	0.50048
	B1->YN (RF)	0.02441	0.13466	0.49801

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7R	A0	0.00067	0.00078	0.00110
	A0	-0.00001	-0.00001	-0.00000
	A0	0.00000	0.00000	0.00001
	A0	0.00109	0.00120	0.00153
	A1	0.00068	0.00076	0.00101
	A1	-0.00001	-0.00001	-0.00000
	A1	-0.00004	-0.00003	-0.00003
	A1	0.00119	0.00128	0.00151
	B0	0.00075	0.00081	0.00102
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00008	0.00008	0.00008
	B0	-0.00000	0.00004	0.00024
	B1	0.00066	0.00072	0.00104
	B1	-0.00005	-0.00005	-0.00005
	B1	0.00008	0.00008	0.00008
	B1	0.00001	0.00007	0.00038

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7R	A0	0.00114	0.00126	0.00163
	A0	0.00005	0.00006	0.00006
	A0	-0.00000	-0.00000	0.00000
	A0	0.00071	0.00082	0.00119
	A1	0.00121	0.00132	0.00165
	A1	0.00005	0.00006	0.00007
	A1	0.00003	0.00003	0.00004
	A1	0.00070	0.00080	0.00115
	B0	0.00015	0.00018	0.00034
	B0	0.00010	0.00010	0.00010
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00091	0.00095	0.00113
	B1	0.00012	0.00016	0.00036
	B1	0.00005	0.00005	0.00006
	B1	-0.00008	-0.00008	-0.00008
	B1	0.00079	0.00084	0.00104

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7R	(A1 * !B0 * !B1 * YN)	0.00015	0.00023	0.00055
	(A1 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00088	0.00097	0.00129
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00003
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00006	0.00007	0.00007

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7R	(A1 * !B0 * !B1 * YN)	0.00080	0.00090	0.00126
	(A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(A1 * !B0 * !B1 * YN)	0.00006	0.00016	0.00052
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00021	0.00021	0.00021
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7R	(A0 * !B0 * !B1 * YN)	0.00016	0.00022	0.00045
	(A0 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A0 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * !B0 * !B1 * YN)	0.00098	0.00104	0.00127
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00018	0.00018	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7R	(A0 * !B0 * !B1 * YN)	0.00086	0.00095	0.00127
	(A0 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * !B1 * YN)	0.00007	0.00007	0.00008
	(A0 * !B0 * !B1 * YN)	0.00004	0.00013	0.00046
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00013	0.00013	0.00014
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00018	-0.00018	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7R	(A0 * A1 * B1 * YN)	-0.00009	-0.00008	-0.00007
	(A0 * A1 * B1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * B1 * YN)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * YN)	0.00024	0.00024	0.00024
	(A0 * A1 * !B1 * YN)	-0.00011	-0.00011	-0.00010
	(A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	0.00022	0.00023	0.00023
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00022	0.00022	0.00023

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7R	(A0 * A1 * B1 * YN)	0.00008	0.00009	0.00009
	(A0 * A1 * B1 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * YN)	-0.00024	-0.00024	-0.00024
	(A0 * A1 * !B1 * YN)	0.00011	0.00011	0.00012
	(A0 * A1 * !B1 * YN)	0.00000	0.00000	0.00001
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * YN)	-0.00023	-0.00022	-0.00020
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00022	-0.00021	-0.00021

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7R	(A0 * A1 * B0 * YN)	-0.00012	-0.00011	-0.00010
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * B0 * YN)	0.00024	0.00025	0.00025
	(A0 * A1 * !B0 * YN)	-0.00013	-0.00013	-0.00013
	(A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * YN)	0.00023	0.00023	0.00023
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00025	0.00026	0.00026

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X0P7H7R	(A0 * A1 * B0 * YN)	0.00012	0.00012	0.00012
	(A0 * A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * YN)	-0.00025	-0.00024	-0.00024
	(A0 * A1 * !B0 * YN)	0.00013	0.00014	0.00014
	(A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * YN)	-0.00023	-0.00022	-0.00020
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00004	0.00005	0.00005
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00026	-0.00026	-0.00025

OAI2BB2X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X1H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X1H7R	0.00077	0.00070	0.00077	0.00083	0.02887

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X1H7R	0.00000	0.21361	0.35239

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X1H7R	A0->YN (RR)	0.04548	0.13162	0.33026
	A1->YN (RR)	0.04589	0.13243	0.33369
	B0->YN (FR)	0.03238	0.18570	0.64212
	B1->YN (FR)	0.03059	0.18626	0.65927

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X1H7R	A0->YN (FF)	0.04518	0.15242	0.41085
	A1->YN (FF)	0.04613	0.15532	0.41649
	B0->YN (RF)	0.02432	0.13606	0.50053
	B1->YN (RF)	0.02250	0.13285	0.49784

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X1H7R	A0	0.00075	0.00087	0.00119
	A0	-0.00002	-0.00002	-0.00001
	A0	0.00000	0.00001	0.00001
	A0	0.00112	0.00124	0.00157
	A1	0.00076	0.00085	0.00108
	A1	-0.00002	-0.00002	0.00000
	A1	-0.00003	-0.00003	-0.00003
	A1	0.00123	0.00133	0.00156
	B0	0.00084	0.00089	0.00114
	B0	-0.00012	-0.00012	-0.00012
	B0	0.00009	0.00009	0.00009
	B0	-0.00002	0.00002	0.00026
	B1	0.00072	0.00079	0.00116
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00009	0.00009	0.00009
	B1	-0.00001	0.00006	0.00043

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X1H7R	**A0**	0.00118	0.00130	0.00167
	A0	0.00008	0.00008	0.00008
	A0	-0.00001	-0.00001	-0.00000
	A0	0.00079	0.00091	0.00126
	A1	0.00125	0.00136	0.00170
	A1	0.00008	0.00008	0.00008
	A1	0.00003	0.00003	0.00003
	A1	0.00077	0.00088	0.00121
	B0	0.00016	0.00019	0.00039
	B0	0.00012	0.00012	0.00012
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00103	0.00106	0.00127
	B1	0.00013	0.00018	0.00042
	B1	0.00006	0.00006	0.00007
	B1	-0.00009	-0.00009	-0.00009
	B1	0.00088	0.00093	0.00118

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7R	(A1 * !B0 * !B1 * YN)	0.00017	0.00026	0.00057
	(A1 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * YN)	0.00092	0.00101	0.00132
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7R	(A1 * !B0 * !B1 * YN)	0.00081	0.00090	0.00126
	(A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * YN)	0.00006	0.00015	0.00051
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00021	0.00021	0.00021
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7R	(A0 * !B0 * !B1 * YN)	0.00019	0.00024	0.00047
	(A0 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A0 * !B0 * !B1 * YN)	-0.00008	-0.00008	-0.00007
	(A0 * !B0 * !B1 * YN)	0.00102	0.00108	0.00131
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00018	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7R	(A0 * !B0 * !B1 * YN)	0.00087	0.00096	0.00128
	(A0 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * !B1 * YN)	0.00007	0.00008	0.00008
	(A0 * !B0 * !B1 * YN)	0.00004	0.00013	0.00045
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00013	0.00013	0.00014
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7R	(A0 * A1 * B1 * YN)	-0.00011	-0.00010	-0.00009
	(A0 * A1 * B1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * B1 * YN)	0.00000	0.00000	0.00001
	(A0 * A1 * B1 * YN)	0.00025	0.00025	0.00025
	(A0 * A1 * !B1 * YN)	-0.00013	-0.00013	-0.00012
	(A0 * A1 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	0.00024	0.00024	0.00024
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00013	-0.00013	-0.00011
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00023	0.00023	0.00024

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7R	(A0 * A1 * B1 * YN)	0.00011	0.00011	0.00011
	(A0 * A1 * B1 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B1 * YN)	-0.00025	-0.00025	-0.00025
	(A0 * A1 * !B1 * YN)	0.00013	0.00013	0.00014
	(A0 * A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * YN)	-0.00024	-0.00023	-0.00021
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00014	0.00014	0.00014
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00023	-0.00023	-0.00022

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7R	(A0 * A1 * B0 * YN)	-0.00013	-0.00013	-0.00011
	(A0 * A1 * B0 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * B0 * YN)	0.00000	0.00001	0.00000
	(A0 * A1 * B0 * YN)	0.00026	0.00026	0.00027
	(A0 * A1 * !B0 * YN)	-0.00015	-0.00015	-0.00015
	(A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * YN)	0.00024	0.00025	0.00025
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00027	0.00028	0.00028

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1H7R	(A0 * A1 * B0 * YN)	0.00013	0.00013	0.00013
	(A0 * A1 * B0 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * B0 * YN)	-0.00026	-0.00026	-0.00026
	(A0 * A1 * !B0 * YN)	0.00015	0.00016	0.00016
	(A0 * A1 * !B0 * YN)	0.00000	0.00000	0.00000
	(A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * YN)	-0.00024	-0.00023	-0.00021
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00028	-0.00027	-0.00027

OAI2BB2X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X1P4H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X1P4H7R	0.00078	0.00070	0.00082	0.00089	0.03297

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X1P4H7R	0.00000	0.23185	0.37745

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X1P4H7R	A0->YN (RR)	0.04519	0.13223	0.33279
	A1->YN (RR)	0.04560	0.13299	0.33594
	B0->YN (FR)	0.03026	0.18401	0.64380
	B1->YN (FR)	0.02833	0.18425	0.66071

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X1P4H7R	A0->YN (FF)	0.04450	0.15224	0.41142
	A1->YN (FF)	0.04543	0.15510	0.41706
	B0->YN (RF)	0.02287	0.13413	0.49916
	B1->YN (RF)	0.02095	0.13078	0.49600

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7R	A0	0.00083	0.00094	0.00129
	A0	-0.00003	-0.00003	-0.00002
	A0	0.00000	0.00001	0.00001
	A0	0.00116	0.00127	0.00161
	A1	0.00084	0.00093	0.00117
	A1	-0.00003	-0.00003	-0.00002
	A1	-0.00003	-0.00003	-0.00002
	A1	0.00127	0.00136	0.00159
	B0	0.00090	0.00097	0.00125
	B0	-0.00014	-0.00014	-0.00014
	B0	0.00011	0.00011	0.00011
	B0	-0.00004	0.00001	0.00028
	B1	0.00076	0.00085	0.00128
	B1	-0.00007	-0.00007	-0.00007
	B1	0.00011	0.00011	0.00011
	B1	-0.00003	0.00005	0.00047

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7R	A0	0.00121	0.00133	0.00171
	A0	0.00010	0.00010	0.00010
	A0	-0.00001	-0.00001	-0.00000
	A0	0.00086	0.00098	0.00134
	A1	0.00127	0.00139	0.00174
	A1	0.00008	0.00010	0.00010
	A1	0.00003	0.00003	0.00003
	A1	0.00084	0.00095	0.00128
	B0	0.00016	0.00020	0.00043
	B0	0.00014	0.00014	0.00014
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00111	0.00117	0.00141
	B1	0.00013	0.00019	0.00048
	B1	0.00007	0.00007	0.00008
	B1	-0.00011	-0.00011	-0.00011
	B1	0.00095	0.00101	0.00131

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7R	(A1 * !B0 * !B1 * YN)	0.00020	0.00028	0.00059
	(A1 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * !B1 * YN)	0.00095	0.00104	0.00135
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00003
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00006	0.00007	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7R	(A1 * !B0 * !B1 * YN)	0.00081	0.00091	0.00126
	(A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(A1 * !B0 * !B1 * YN)	0.00005	0.00015	0.00050
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00021	0.00021	0.00021
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7R	(A0 * !B0 * !B1 * YN)	0.00021	0.00026	0.00049
	(A0 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A0 * !B0 * !B1 * YN)	-0.00008	-0.00008	-0.00007
	(A0 * !B0 * !B1 * YN)	0.00106	0.00112	0.00134
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7R	(A0 * !B0 * !B1 * YN)	0.00088	0.00097	0.00128
	(A0 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * !B1 * YN)	0.00007	0.00008	0.00008
	(A0 * !B0 * !B1 * YN)	0.00003	0.00012	0.00043
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00013	0.00013	0.00014
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00019	-0.00018	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7R	(A0 * A1 * B1 * YN)	-0.00012	-0.00012	-0.00010
	(A0 * A1 * B1 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B1 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * YN)	0.00026	0.00027	0.00027
	(A0 * A1 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	0.00025	0.00025	0.00025
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00015	-0.00014	-0.00012
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00024	0.00024	0.00025

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7R	(A0 * A1 * B1 * YN)	0.00012	0.00012	0.00013
	(A0 * A1 * B1 * YN)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * YN)	-0.00027	-0.00027	-0.00026
	(A0 * A1 * !B1 * YN)	0.00015	0.00015	0.00016
	(A0 * A1 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * YN)	-0.00025	-0.00024	-0.00022
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00015	0.00015	0.00015
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00024	-0.00024	-0.00024

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7R	(A0 * A1 * B0 * YN)	-0.00015	-0.00014	-0.00012
	(A0 * A1 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * B0 * YN)	0.00028	0.00028	0.00028
	(A0 * A1 * !B0 * YN)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * YN)	0.00026	0.00026	0.00027
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00005	-0.00006	-0.00005
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00029	0.00029	0.00029

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X1P4H7R	(A0 * A1 * B0 * YN)	0.00015	0.00015	0.00015
	(A0 * A1 * B0 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * YN)	-0.00028	-0.00028	-0.00028
	(A0 * A1 * !B0 * YN)	0.00017	0.00017	0.00018
	(A0 * A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * YN)	-0.00026	-0.00025	-0.00023
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00029	-0.00029	-0.00029

OAI2BB2X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X2H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X2H7R	0.00078	0.00073	0.00091	0.00098	0.03944

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X2H7R	0.00000	0.25934	0.41766

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X2H7R	A0->YN (RR)	0.04538	0.13468	0.33982
	A1->YN (RR)	0.04581	0.13537	0.34325
	B0->YN (FR)	0.02837	0.18461	0.65133
	B1->YN (FR)	0.02622	0.18444	0.66687

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X2H7R	A0->YN (FF)	0.04392	0.15256	0.41388
	A1->YN (FF)	0.04483	0.15538	0.41941
	B0->YN (RF)	0.02135	0.13201	0.49734
	B1->YN (RF)	0.01934	0.12849	0.49502

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X2H7R	**A0**	0.00093	0.00105	0.00139
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00001	0.00002	0.00002
	A0	0.00120	0.00132	0.00168
	A1	0.00094	0.00104	0.00129
	A1	-0.00004	-0.00004	-0.00003
	A1	-0.00002	-0.00002	-0.00002
	A1	0.00132	0.00142	0.00165
	B0	0.00103	0.00110	0.00144
	B0	-0.00017	-0.00017	-0.00017
	B0	0.00013	0.00013	0.00013
	B0	-0.00006	-0.00001	0.00032
	B1	0.00084	0.00094	0.00146
	B1	-0.00009	-0.00009	-0.00009
	B1	0.00013	0.00013	0.00013
	B1	-0.00006	0.00004	0.00054

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X2H7R	A0	0.00126	0.00139	0.00178
	A0	0.00012	0.00013	0.00013
	A0	-0.00002	-0.00002	-0.00001
	A0	0.00097	0.00109	0.00145
	A1	0.00133	0.00145	0.00182
	A1	0.00012	0.00013	0.00015
	A1	0.00002	0.00002	0.00002
	A1	0.00094	0.00105	0.00140
	B0	0.00018	0.00022	0.00050
	B0	0.00017	0.00017	0.00017
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00125	0.00133	0.00162
	B1	0.00014	0.00021	0.00057
	B1	0.00009	0.00009	0.00009
	B1	-0.00013	-0.00013	-0.00013
	B1	0.00103	0.00114	0.00151

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7R	(A1 * !B0 * !B1 * YN)	0.00023	0.00031	0.00061
	(A1 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * YN)	0.00100	0.00109	0.00139
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7R	(A1 * !B0 * !B1 * YN)	0.00083	0.00092	0.00127
	(A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * YN)	0.00005	0.00014	0.00048
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00021	0.00021	0.00021
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7R	(A0 * !B0 * !B1 * YN)	0.00024	0.00029	0.00051
	(A0 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A0 * !B0 * !B1 * YN)	-0.00009	-0.00009	-0.00008
	(A0 * !B0 * !B1 * YN)	0.00112	0.00117	0.00139
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7R	(A0 * !B0 * !B1 * YN)	0.00089	0.00098	0.00129
	(A0 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * !B0 * !B1 * YN)	0.00008	0.00009	0.00009
	(A0 * !B0 * !B1 * YN)	0.00002	0.00011	0.00042
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00013	0.00013	0.00014
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7R	(A0 * A1 * B1 * YN)	-0.00015	-0.00014	-0.00012
	(A0 * A1 * B1 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B1 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * B1 * YN)	0.00029	0.00029	0.00029
	(A0 * A1 * !B1 * YN)	-0.00017	-0.00017	-0.00017
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00017	-0.00016	-0.00014
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00027	0.00027	0.00028

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7R	(A0 * A1 * B1 * YN)	0.00014	0.00015	0.00015
	(A0 * A1 * B1 * YN)	0.00001	0.00002	0.00002
	(A0 * A1 * B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B1 * YN)	-0.00029	-0.00029	-0.00029
	(A0 * A1 * !B1 * YN)	0.00017	0.00018	0.00018
	(A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * A1 * !B1 * YN)	-0.00027	-0.00026	-0.00024
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00018	0.00018	0.00018
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00027	-0.00026	-0.00026

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7R	(A0 * A1 * B0 * YN)	-0.00017	-0.00016	-0.00014
	(A0 * A1 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * YN)	0.00030	0.00031	0.00031
	(A0 * A1 * !B0 * YN)	-0.00020	-0.00020	-0.00019
	(A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * !B0 * YN)	0.00001	0.00002	0.00002
	(A0 * A1 * !B0 * YN)	0.00028	0.00029	0.00029
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00033	0.00033	0.00033

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X2H7R	(A0 * A1 * B0 * YN)	0.00017	0.00017	0.00017
	(A0 * A1 * B0 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A1 * B0 * YN)	-0.00031	-0.00031	-0.00030
	(A0 * A1 * !B0 * YN)	0.00020	0.00020	0.00021
	(A0 * A1 * !B0 * YN)	0.00000	0.00001	0.00001
	(A0 * A1 * !B0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B0 * YN)	-0.00028	-0.00027	-0.00025
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00033	-0.00032	-0.00032

OAI2BB2X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X3H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X3H7R	0.00087	0.00079	0.00146	0.00166	0.05988

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X3H7R	0.00000	0.38550	0.62607

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X3H7R	A0->YN (RR)	0.04563	0.13563	0.34152
	A1->YN (RR)	0.04648	0.13689	0.34545
	B0->YN (FR)	0.02918	0.18330	0.64328
	B1->YN (FR)	0.02617	0.18258	0.66129

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X3H7R	A0->YN (FF)	0.04509	0.15517	0.41740
	A1->YN (FF)	0.04628	0.15809	0.42278
	B0->YN (RF)	0.02235	0.13261	0.49534
	B1->YN (RF)	0.01980	0.12803	0.49097

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X3H7R	A0	0.00176	0.00193	0.00242
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00001	0.00003	0.00003
	A0	0.00186	0.00203	0.00252
	A1	0.00177	0.00190	0.00220
	A1	-0.00007	-0.00007	-0.00005
	A1	-0.00003	-0.00002	-0.00002
	A1	0.00200	0.00213	0.00243
	B0	0.00186	0.00195	0.00247
	B0	-0.00026	-0.00026	-0.00025
	B0	0.00020	0.00020	0.00020
	B0	-0.00005	0.00003	0.00054
	B1	0.00145	0.00161	0.00244
	B1	-0.00013	-0.00013	-0.00013
	B1	0.00020	0.00020	0.00020
	B1	-0.00011	0.00004	0.00084

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X3H7R	**A0**	0.00176	0.00193	0.00246
	A0	0.00019	0.00019	0.00022
	A0	-0.00003	-0.00002	-0.00001
	A0	0.00166	0.00183	0.00227
	A1	0.00186	0.00202	0.00252
	A1	0.00016	0.00019	0.00020
	A1	0.00002	0.00002	0.00003
	A1	0.00165	0.00180	0.00223
	B0	0.00033	0.00040	0.00083
	B0	0.00025	0.00026	0.00026
	B0	-0.00020	-0.00020	-0.00020
	B0	0.00218	0.00231	0.00276
	B1	0.00027	0.00038	0.00095
	B1	0.00013	0.00013	0.00014
	B1	-0.00020	-0.00020	-0.00020
	B1	0.00188	0.00200	0.00259

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7R	(A1 * !B0 * !B1 * YN)	0.00046	0.00057	0.00094
	(A1 * !B0 * !B1 * YN)	0.00007	0.00007	0.00007
	(A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * !B1 * YN)	0.00139	0.00150	0.00188
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00025	-0.00025	-0.00024
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00007	0.00007	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7R	(A1 * !B0 * !B1 * YN)	0.00100	0.00111	0.00154
	(A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * !B1 * YN)	0.00007	0.00007	0.00007
	(A1 * !B0 * !B1 * YN)	0.00006	0.00018	0.00060
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00024	0.00025	0.00025
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00003	-0.00002	-0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00006

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7R	(A0 * !B0 * !B1 * YN)	0.00047	0.00054	0.00080
	(A0 * !B0 * !B1 * YN)	0.00007	0.00007	0.00007
	(A0 * !B0 * !B1 * YN)	-0.00012	-0.00012	-0.00011
	(A0 * !B0 * !B1 * YN)	0.00153	0.00160	0.00185
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00016	-0.00016	-0.00016
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00020	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7R	(A0 * !B0 * !B1 * YN)	0.00110	0.00120	0.00158
	(A0 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * !B0 * !B1 * YN)	0.00011	0.00012	0.00012
	(A0 * !B0 * !B1 * YN)	0.00005	0.00015	0.00053
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00016	0.00017	0.00017
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00020	-0.00019	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7R	(A0 * A1 * B1 * YN)	-0.00025	-0.00023	-0.00020
	(A0 * A1 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * YN)	0.00052	0.00052	0.00053
	(A0 * A1 * !B1 * YN)	-0.00030	-0.00030	-0.00030
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * !B1 * YN)	0.00047	0.00048	0.00048
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00030	-0.00028	-0.00024
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00047	0.00048	0.00049

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7R	(A0 * A1 * B1 * YN)	0.00025	0.00025	0.00025
	(A0 * A1 * B1 * YN)	0.00003	0.00003	0.00003
	(A0 * A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * YN)	-0.00052	-0.00052	-0.00051
	(A0 * A1 * !B1 * YN)	0.00031	0.00031	0.00032
	(A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B1 * YN)	-0.00047	-0.00045	-0.00042
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00030	0.00030	0.00031
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00002	0.00003	0.00003
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00048	-0.00047	-0.00047

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7R	(A0 * A1 * B0 * YN)	-0.00030	-0.00027	-0.00023
	(A0 * A1 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * YN)	0.00057	0.00057	0.00058
	(A0 * A1 * !B0 * YN)	-0.00035	-0.00035	-0.00035
	(A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * YN)	0.00002	0.00003	0.00003
	(A0 * A1 * !B0 * YN)	0.00051	0.00052	0.00052
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00064	0.00064	0.00064

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X3H7R	(A0 * A1 * B0 * YN)	0.00029	0.00029	0.00030
	(A0 * A1 * B0 * YN)	0.00003	0.00003	0.00003
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * YN)	-0.00057	-0.00057	-0.00057
	(A0 * A1 * !B0 * YN)	0.00035	0.00036	0.00038
	(A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * A1 * !B0 * YN)	-0.00051	-0.00048	-0.00044
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00064	-0.00064	-0.00063

OAI2BB2X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X4H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X4H7R	0.00093	0.00086	0.00171	0.00189	0.07778

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X4H7R	0.00000	0.47828	0.76355

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X4H7R	A0->YN (RR)	0.04229	0.13235	0.33808
	A1->YN (RR)	0.04330	0.13400	0.34345
	B0->YN (FR)	0.02637	0.18280	0.65182
	B1->YN (FR)	0.02318	0.18171	0.66760

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X4H7R	A0->YN (FF)	0.04248	0.15319	0.41656
	A1->YN (FF)	0.04378	0.15631	0.42269
	B0->YN (RF)	0.02027	0.13039	0.49500
	B1->YN (RF)	0.01759	0.12570	0.49216

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X4H7R	A0	0.00206	0.00226	0.00285
	A0	-0.00010	-0.00009	-0.00009
	A0	0.00003	0.00004	0.00005
	A0	0.00202	0.00222	0.00281
	A1	0.00207	0.00222	0.00262
	A1	-0.00010	-0.00009	-0.00007
	A1	-0.00002	-0.00002	-0.00001
	A1	0.00218	0.00235	0.00271
	B0	0.00215	0.00230	0.00296
	B0	-0.00034	-0.00034	-0.00033
	B0	0.00026	0.00026	0.00026
	B0	-0.00012	-0.00002	0.00063
	B1	0.00166	0.00186	0.00293
	B1	-0.00018	-0.00017	-0.00016
	B1	0.00026	0.00026	0.00026
	B1	-0.00017	0.00003	0.00106

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X4H7R	**A0**	0.00191	0.00211	0.00276
	A0	0.00026	0.00027	0.00030
	A0	-0.00004	-0.00003	-0.00003
	A0	0.00195	0.00213	0.00268
	A1	0.00204	0.00222	0.00284
	A1	0.00026	0.00026	0.00028
	A1	0.00002	0.00002	0.00002
	A1	0.00192	0.00210	0.00261
	B0	0.00035	0.00044	0.00102
	B0	0.00033	0.00034	0.00034
	B0	-0.00026	-0.00026	-0.00026
	B0	0.00260	0.00274	0.00333
	B1	0.00027	0.00042	0.00119
	B1	0.00016	0.00018	0.00018
	B1	-0.00026	-0.00026	-0.00026
	B1	0.00219	0.00232	0.00311

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7R	(A1 * !B0 * !B1 * YN)	0.00054	0.00066	0.00109
	(A1 * !B0 * !B1 * YN)	0.00008	0.00008	0.00008
	(A1 * !B0 * !B1 * YN)	-0.00009	-0.00009	-0.00008
	(A1 * !B0 * !B1 * YN)	0.00155	0.00167	0.00211
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00027	-0.00027	-0.00026
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00006	0.00006	0.00008

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7R	(A1 * !B0 * !B1 * YN)	0.00107	0.00119	0.00167
	(A1 * !B0 * !B1 * YN)	-0.00008	-0.00008	-0.00008
	(A1 * !B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * YN)	0.00004	0.00017	0.00064
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00026	0.00027	0.00027
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7R	(A0 * !B0 * !B1 * YN)	0.00055	0.00063	0.00092
	(A0 * !B0 * !B1 * YN)	0.00008	0.00008	0.00009
	(A0 * !B0 * !B1 * YN)	-0.00015	-0.00015	-0.00014
	(A0 * !B0 * !B1 * YN)	0.00172	0.00180	0.00209
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00018	-0.00018	-0.00018
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00000	-0.00001	-0.00000
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00022	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7R	(A0 * !B0 * !B1 * YN)	0.00118	0.00130	0.00172
	(A0 * !B0 * !B1 * YN)	-0.00008	-0.00008	-0.00008
	(A0 * !B0 * !B1 * YN)	0.00014	0.00015	0.00015
	(A0 * !B0 * !B1 * YN)	0.00001	0.00013	0.00056
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00018	0.00018	0.00019
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7R	(A0 * A1 * B1 * YN)	-0.00032	-0.00029	-0.00025
	(A0 * A1 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B1 * YN)	0.00057	0.00058	0.00059
	(A0 * A1 * !B1 * YN)	-0.00038	-0.00038	-0.00038
	(A0 * A1 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B1 * YN)	0.00003	0.00003	0.00003
	(A0 * A1 * !B1 * YN)	0.00053	0.00053	0.00053
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00037	-0.00034	-0.00029
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00053	0.00054	0.00055

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7R	(A0 * A1 * B1 * YN)	0.00031	0.00032	0.00032
	(A0 * A1 * B1 * YN)	0.00004	0.00004	0.00004
	(A0 * A1 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B1 * YN)	-0.00057	-0.00057	-0.00057
	(A0 * A1 * !B1 * YN)	0.00039	0.00039	0.00041
	(A0 * A1 * !B1 * YN)	0.00001	0.00001	0.00002
	(A0 * A1 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B1 * YN)	-0.00052	-0.00049	-0.00046
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00037	0.00037	0.00037
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00053	-0.00053	-0.00052

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7R	(A0 * A1 * B0 * YN)	-0.00037	-0.00034	-0.00029
	(A0 * A1 * B0 * YN)	-0.00004	-0.00004	-0.00003
	(A0 * A1 * B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * B0 * YN)	0.00061	0.00061	0.00062
	(A0 * A1 * !B0 * YN)	-0.00043	-0.00043	-0.00043
	(A0 * A1 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * !B0 * YN)	0.00003	0.00003	0.00003
	(A0 * A1 * !B0 * YN)	0.00054	0.00055	0.00056
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00009	-0.00009	-0.00009
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00069	0.00069	0.00070

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X4H7R	(A0 * A1 * B0 * YN)	0.00036	0.00036	0.00037
	(A0 * A1 * B0 * YN)	0.00004	0.00004	0.00004
	(A0 * A1 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A1 * B0 * YN)	-0.00060	-0.00060	-0.00060
	(A0 * A1 * !B0 * YN)	0.00043	0.00044	0.00047
	(A0 * A1 * !B0 * YN)	0.00001	0.00001	0.00001
	(A0 * A1 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * A1 * !B0 * YN)	-0.00054	-0.00051	-0.00046
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00009	0.00009	0.00009
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00006	0.00006	0.00007
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00070	-0.00069	-0.00069

OAI2BB2X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2BB2 cell provides the logical inverted AND of one OR group of two inverted inputs (A0N, A1N) and one OR group of two non-inverted inputs (B0, B1). The output (Y) is represented by the logic equation:

Truth Table

INPUT				OUTPUT
A0	A1	B0	B1	YN
x	x	0	0	1
0	x	x	1	0
0	x	1	x	0
1	0	x	1	0
1	0	1	x	0
1	1	x	1	1
1	1	1	x	1

Footprint

Cell Name	Area
OAI2BB2X6H7R	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	B1	YN
OAI2BB2X6H7R	0.00101	0.00093	0.00252	0.00261	0.11738

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2BB2X6H7R	0.00000	0.67729	1.07354

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X6H7R	A0->YN (RR)	0.04489	0.13890	0.35290
	A1->YN (RR)	0.04605	0.14047	0.35711
	B0->YN (FR)	0.02431	0.18104	0.65237
	B1->YN (FR)	0.02068	0.17932	0.66721

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2BB2X6H7R	A0->YN (FF)	0.04432	0.15870	0.42945
	A1->YN (FF)	0.04574	0.16170	0.43509
	B0->YN (RF)	0.01939	0.12990	0.49667
	B1->YN (RF)	0.01633	0.12471	0.49342

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X6H7R	A0	0.00302	0.00327	0.00411
	A0	-0.00016	-0.00015	-0.00014
	A0	0.00006	0.00006	0.00010
	A0	0.00261	0.00288	0.00371
	A1	0.00304	0.00323	0.00374
	A1	-0.00018	-0.00017	-0.00013
	A1	-0.00001	-0.00001	0.00001
	A1	0.00282	0.00302	0.00353
	B0	0.00307	0.00330	0.00434
	B0	-0.00051	-0.00051	-0.00050
	B0	0.00039	0.00039	0.00039
	B0	-0.00030	-0.00014	0.00088
	B1	0.00229	0.00258	0.00424
	B1	-0.00027	-0.00026	-0.00025
	B1	0.00039	0.00039	0.00039
	B1	-0.00033	-0.00003	0.00159

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2BB2X6H7R	A0	0.00257	0.00282	0.00372
	A0	0.00038	0.00042	0.00042
	A0	-0.00007	-0.00006	-0.00004
	A0	0.00295	0.00318	0.00389
	A1	0.00272	0.00296	0.00382
	A1	0.00038	0.00042	0.00042
	A1	0.00000	0.00001	0.00001
	A1	0.00293	0.00315	0.00383
	B0	0.00053	0.00067	0.00157
	B0	0.00050	0.00051	0.00051
	B0	-0.00039	-0.00039	-0.00039
	B0	0.00382	0.00407	0.00499
	B1	0.00042	0.00065	0.00190
	B1	0.00025	0.00026	0.00029
	B1	-0.00039	-0.00039	-0.00039
	B1	0.00305	0.00333	0.00462

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7R	(A1 * !B0 * !B1 * YN)	0.00083	0.00096	0.00144
	(A1 * !B0 * !B1 * YN)	0.00010	0.00011	0.00011
	(A1 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(A1 * !B0 * !B1 * YN)	0.00202	0.00216	0.00263
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00030	-0.00030	-0.00030
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00003	0.00004	0.00004
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00005	0.00006	0.00006

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7R	(A1 * !B0 * !B1 * YN)	0.00131	0.00145	0.00197
	(A1 * !B0 * !B1 * YN)	-0.00011	-0.00010	-0.00010
	(A1 * !B0 * !B1 * YN)	0.00013	0.00013	0.00014
	(A1 * !B0 * !B1 * YN)	0.00011	0.00024	0.00077
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00030	0.00030	0.00030
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00002
	(!A1 * B0 * !YN) + (!A1 * !B0 * B1 * !YN) + (!A1 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00005

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7R	(A0 * !B0 * !B1 * YN)	0.00084	0.00093	0.00124
	(A0 * !B0 * !B1 * YN)	0.00010	0.00011	0.00011
	(A0 * !B0 * !B1 * YN)	-0.00020	-0.00020	-0.00020
	(A0 * !B0 * !B1 * YN)	0.00222	0.00230	0.00261
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00021	-0.00020	-0.00020
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00024	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7R	(A0 * !B0 * !B1 * YN)	0.00145	0.00158	0.00205
	(A0 * !B0 * !B1 * YN)	-0.00011	-0.00010	-0.00010
	(A0 * !B0 * !B1 * YN)	0.00020	0.00020	0.00020
	(A0 * !B0 * !B1 * YN)	0.00008	0.00021	0.00068
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00021	0.00021	0.00022
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * !YN) + (!A0 * !B0 * B1 * !YN) + (!A0 * !B0 * !B1 * YN)	-0.00023	-0.00022	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7R	(A0 * A1 * B1 * YN)	-0.00048	-0.00044	-0.00037
	(A0 * A1 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * A1 * B1 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * B1 * YN)	0.00085	0.00085	0.00087
	(A0 * A1 * !B1 * YN)	-0.00058	-0.00058	-0.00058
	(A0 * A1 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * !B1 * YN)	0.00004	0.00004	0.00004
	(A0 * A1 * !B1 * YN)	0.00078	0.00078	0.00079
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00054	-0.00050	-0.00043
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00079	0.00081	0.00085

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7R	(A0 * A1 * B1 * YN)	0.00047	0.00048	0.00048
	(A0 * A1 * B1 * YN)	0.00006	0.00006	0.00006
	(A0 * A1 * B1 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B1 * YN)	-0.00085	-0.00085	-0.00084
	(A0 * A1 * !B1 * YN)	0.00059	0.00060	0.00061
	(A0 * A1 * !B1 * YN)	0.00001	0.00002	0.00002
	(A0 * A1 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * A1 * !B1 * YN)	-0.00077	-0.00074	-0.00069
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00055	0.00056	0.00056
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B1 * !YN) + (!A0 * B1 * !YN)	-0.00080	-0.00079	-0.00078

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7R	(A0 * A1 * B0 * YN)	-0.00053	-0.00049	-0.00041
	(A0 * A1 * B0 * YN)	-0.00006	-0.00006	-0.00005
	(A0 * A1 * B0 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * B0 * YN)	0.00084	0.00084	0.00085
	(A0 * A1 * !B0 * YN)	-0.00064	-0.00063	-0.00063
	(A0 * A1 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A1 * !B0 * YN)	0.00004	0.00004	0.00005
	(A0 * A1 * !B0 * YN)	0.00076	0.00076	0.00077
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00010	-0.00009	-0.00009
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00010	-0.00009	-0.00009
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00097	0.00098	0.00098

Passive power(pJ) for B1 falling (conditional):

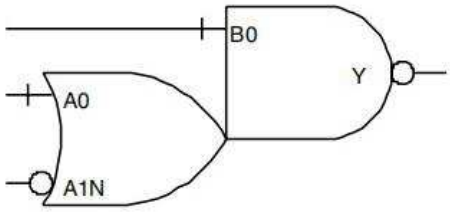
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2BB2X6H7R	(A0 * A1 * B0 * YN)	0.00052	0.00053	0.00053
	(A0 * A1 * B0 * YN)	0.00006	0.00006	0.00006
	(A0 * A1 * B0 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * A1 * B0 * YN)	-0.00084	-0.00083	-0.00083
	(A0 * A1 * !B0 * YN)	0.00064	0.00065	0.00067
	(A0 * A1 * !B0 * YN)	0.00002	0.00002	0.00002
	(A0 * A1 * !B0 * YN)	-0.00005	-0.00004	-0.00004
	(A0 * A1 * !B0 * YN)	-0.00075	-0.00071	-0.00065
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00009	0.00010	0.00010
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	0.00010	0.00010	0.00010
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * B0 * !YN) + (!A0 * B0 * !YN)	-0.00098	-0.00097	-0.00096

OAI2XB1X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X0P5H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X0P5H7R	0.00071	0.00075	0.00079	0.02209

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X0P5H7R	0.00000	0.19563	0.28639

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X0P5H7R	A0->Y (FR)	0.04332	0.19923	0.65799
	A1N->Y (RR)	0.05729	0.18886	0.51076
	B0->Y (FR)	0.01936	0.12184	0.47457

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X0P5H7R	A0->Y (RF)	0.02936	0.14319	0.50728
	A1N->Y (FF)	0.04960	0.15599	0.41547
	B0->Y (RF)	0.02515	0.13756	0.51472

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7R	A0	0.00105	0.00109	0.00127
	A0	-0.00009	-0.00009	-0.00008
	A0	0.00007	0.00007	0.00007
	A0	0.00021	0.00025	0.00042
	A1N	0.00092	0.00104	0.00143
	A1N	-0.00002	-0.00002	-0.00002
	A1N	0.00005	0.00005	0.00005
	A1N	0.00114	0.00126	0.00164
	B0	0.00080	0.00088	0.00126
	B0	-0.00005	-0.00004	-0.00004
	B0	0.00001	0.00002	0.00002
	B0	0.00014	0.00021	0.00058

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7R	A0	-0.00007	-0.00005	0.00009
	A0	0.00009	0.00009	0.00009
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00078	0.00081	0.00095
	A1N	0.00099	0.00111	0.00154
	A1N	0.00002	0.00002	0.00002
	A1N	-0.00005	-0.00005	-0.00005
	A1N	0.00079	0.00092	0.00135
	B0	0.00002	0.00009	0.00044
	B0	0.00009	0.00009	0.00009
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00060	0.00068	0.00105

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7R	(A1N * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	0.00024	0.00024	0.00025
	(!A1N * B0 * !Y)	-0.00013	-0.00013	-0.00012
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1N * B0 * !Y)	0.00023	0.00023	0.00024
	(!A1N * !B0 * Y)	-0.00015	-0.00015	-0.00014
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !B0 * Y)	0.00000	0.00000	0.00001
	(!A1N * !B0 * Y)	0.00020	0.00021	0.00021

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7R	(A1N * !B0 * Y)	0.00012	0.00012	0.00013
	(A1N * !B0 * Y)	0.00000	0.00000	0.00001
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	-0.00024	-0.00023	-0.00022
	(!A1N * B0 * !Y)	0.00013	0.00013	0.00014
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1N * !B0 * Y)	0.00015	0.00015	0.00016
	(!A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !B0 * Y)	-0.00021	-0.00021	-0.00020

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7R	(A0 * B0 * !Y)	-0.00008	0.00002	0.00041
	(A0 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00057	0.00067	0.00106
	(!B0 * Y)	0.00007	0.00018	0.00056
	(!B0 * Y)	0.00003	0.00003	0.00003
	(!B0 * Y)	-0.00002	-0.00002	-0.00002
	(!B0 * Y)	0.00071	0.00081	0.00120

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7R	(A0 * B0 * !Y)	0.00082	0.00095	0.00138
	(A0 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	0.00017	0.00030	0.00073
	(!B0 * Y)	0.00071	0.00083	0.00125
	(!B0 * Y)	-0.00003	-0.00003	-0.00003
	(!B0 * Y)	0.00002	0.00002	0.00002
	(!B0 * Y)	0.00007	0.00019	0.00061

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7R	(!A0 * A1N * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A1N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1N * Y)	0.00002	0.00002	0.00002
	(!A0 * A1N * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

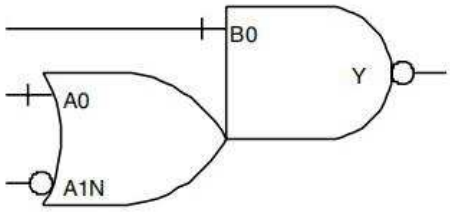
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P5H7R	(!A0 * A1N * Y)	0.00021	0.00021	0.00021
	(!A0 * A1N * Y)	0.00000	0.00000	0.00000
	(!A0 * A1N * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1N * Y)	-0.00009	-0.00009	-0.00009

OAI2XB1X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X0P7H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X0P7H7R	0.00075	0.00075	0.00083	0.02508

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X0P7H7R	0.00000	0.20905	0.30513

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X0P7H7R	A0->Y (FR)	0.04010	0.19683	0.66036
	A1N->Y (RR)	0.05403	0.18703	0.51180
	B0->Y (FR)	0.01785	0.12011	0.47547

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X0P7H7R	A0->Y (RF)	0.02712	0.14071	0.50679
	A1N->Y (FF)	0.04768	0.15474	0.41561
	B0->Y (RF)	0.02317	0.13509	0.51335

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7R	A0	0.00111	0.00116	0.00135
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00008	0.00008	0.00008
	A0	0.00021	0.00025	0.00044
	A1N	0.00096	0.00109	0.00147
	A1N	-0.00003	-0.00003	-0.00003
	A1N	0.00006	0.00006	0.00006
	A1N	0.00115	0.00127	0.00165
	B0	0.00082	0.00093	0.00136
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00002	0.00002	0.00002
	B0	0.00013	0.00022	0.00064

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7R	A0	-0.00008	-0.00005	0.00010
	A0	0.00010	0.00010	0.00010
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00083	0.00086	0.00102
	A1N	0.00101	0.00114	0.00156
	A1N	0.00003	0.00003	0.00003
	A1N	-0.00006	-0.00006	-0.00006
	A1N	0.00084	0.00097	0.00141
	B0	0.00002	0.00009	0.00050
	B0	0.00010	0.00010	0.00010
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00063	0.00072	0.00115

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7R	(A1N * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	0.00025	0.00025	0.00025
	(!A1N * B0 * !Y)	-0.00014	-0.00014	-0.00012
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1N * B0 * !Y)	0.00024	0.00024	0.00024
	(!A1N * !B0 * Y)	-0.00016	-0.00016	-0.00015
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !B0 * Y)	0.00000	0.00000	0.00001
	(!A1N * !B0 * Y)	0.00021	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7R	(A1N * !B0 * Y)	0.00013	0.00013	0.00014
	(A1N * !B0 * Y)	0.00000	0.00000	0.00001
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	-0.00025	-0.00024	-0.00022
	(!A1N * B0 * !Y)	0.00014	0.00014	0.00014
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1N * !B0 * Y)	0.00016	0.00016	0.00016
	(!A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1N * !B0 * Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7R	(A0 * B0 * !Y)	-0.00008	0.00002	0.00041
	(A0 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00057	0.00068	0.00106
	(!B0 * Y)	0.00008	0.00019	0.00057
	(!B0 * Y)	0.00003	0.00003	0.00004
	(!B0 * Y)	-0.00002	-0.00002	-0.00002
	(!B0 * Y)	0.00072	0.00083	0.00121

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7R	(A0 * B0 * !Y)	0.00084	0.00096	0.00139
	(A0 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	0.00019	0.00031	0.00074
	(!B0 * Y)	0.00073	0.00084	0.00126
	(!B0 * Y)	-0.00004	-0.00003	-0.00003
	(!B0 * Y)	0.00002	0.00002	0.00002
	(!B0 * Y)	0.00008	0.00020	0.00062

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7R	(!A0 * A1N * Y)	-0.00023	-0.00023	-0.00022
	(!A0 * A1N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1N * Y)	0.00002	0.00002	0.00002
	(!A0 * A1N * Y)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

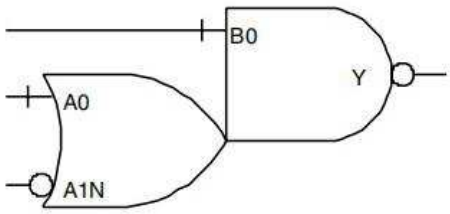
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X0P7H7R	(!A0 * A1N * Y)	0.00023	0.00023	0.00023
	(!A0 * A1N * Y)	0.00000	0.00000	0.00000
	(!A0 * A1N * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A1N * Y)	-0.00009	-0.00009	-0.00009

OAI2XB1X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X1H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X1H7R	0.00080	0.00074	0.00089	0.02992

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X1H7R	0.00000	0.22846	0.33084

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X1H7R	A0->Y (FR)	0.03633	0.19378	0.66014
	A1N->Y (RR)	0.04980	0.18435	0.51238
	B0->Y (FR)	0.01599	0.11810	0.47610

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X1H7R	A0->Y (RF)	0.02501	0.13992	0.51223
	A1N->Y (FF)	0.04562	0.15493	0.42117
	B0->Y (RF)	0.02123	0.13447	0.51646

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X1H7R	A0	0.00120	0.00126	0.00149
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00009	0.00009	0.00009
	A0	0.00021	0.00026	0.00048
	A1N	0.00103	0.00116	0.00154
	A1N	-0.00004	-0.00004	-0.00003
	A1N	0.00008	0.00008	0.00010
	A1N	0.00116	0.00128	0.00166
	B0	0.00091	0.00102	0.00153
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00002	0.00002	0.00003
	B0	0.00014	0.00023	0.00073

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X1H7R	A0	-0.00009	-0.00006	0.00012
	A0	0.00012	0.00012	0.00012
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00088	0.00095	0.00114
	A1N	0.00103	0.00116	0.00158
	A1N	0.00004	0.00004	0.00004
	A1N	-0.00008	-0.00008	-0.00008
	A1N	0.00092	0.00105	0.00148
	B0	0.00001	0.00010	0.00059
	B0	0.00012	0.00012	0.00012
	B0	-0.00002	-0.00002	-0.00000
	B0	0.00069	0.00078	0.00129

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7R	(A1N * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(A1N * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	0.00026	0.00026	0.00026
	(!A1N * B0 * !Y)	-0.00016	-0.00015	-0.00014
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1N * B0 * !Y)	0.00025	0.00026	0.00026
	(!A1N * !B0 * Y)	-0.00018	-0.00017	-0.00016
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1N * !B0 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7R	(A1N * !B0 * Y)	0.00015	0.00015	0.00016
	(A1N * !B0 * Y)	0.00000	0.00000	0.00001
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	-0.00026	-0.00025	-0.00023
	(!A1N * B0 * !Y)	0.00016	0.00016	0.00016
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1N * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A1N * !B0 * Y)	0.00018	0.00018	0.00018
	(!A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !B0 * Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7R	(A0 * B0 * !Y)	-0.00008	0.00002	0.00041
	(A0 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00057	0.00067	0.00105
	(!B0 * Y)	0.00010	0.00020	0.00058
	(!B0 * Y)	0.00003	0.00004	0.00004
	(!B0 * Y)	-0.00002	-0.00002	-0.00002
	(!B0 * Y)	0.00073	0.00084	0.00122

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7R	(A0 * B0 * !Y)	0.00086	0.00098	0.00140
	(A0 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	0.00021	0.00033	0.00076
	(!B0 * Y)	0.00074	0.00085	0.00126
	(!B0 * Y)	-0.00004	-0.00004	-0.00003
	(!B0 * Y)	0.00002	0.00002	0.00002
	(!B0 * Y)	0.00009	0.00021	0.00062

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7R	(!A0 * A1N * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1N * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1N * Y)	0.00002	0.00002	0.00003
	(!A0 * A1N * Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

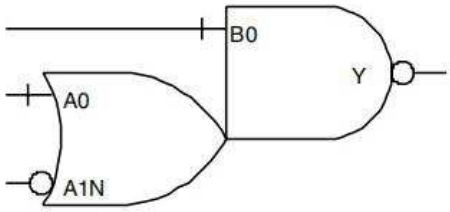
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1H7R	(!A0 * A1N * Y)	0.00025	0.00025	0.00025
	(!A0 * A1N * Y)	0.00000	0.00000	0.00001
	(!A0 * A1N * Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A1N * Y)	-0.00009	-0.00009	-0.00008

OAI2XB1X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X1P4H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X1P4H7R	0.00085	0.00073	0.00097	0.03418

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X1P4H7R	0.00000	0.24704	0.35635

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X1P4H7R	A0->Y (FR)	0.03373	0.19162	0.66120
	A1N->Y (RR)	0.04707	0.18269	0.51291
	B0->Y (FR)	0.01486	0.11683	0.47649

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X1P4H7R	A0->Y (RF)	0.02314	0.13744	0.50977
	A1N->Y (FF)	0.04397	0.15364	0.42047
	B0->Y (RF)	0.01741	0.12932	0.51429

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7R	A0	0.00129	0.00135	0.00161
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00011	0.00011	0.00011
	A0	0.00021	0.00025	0.00051
	A1N	0.00109	0.00121	0.00160
	A1N	-0.00005	-0.00005	-0.00005
	A1N	0.00009	0.00009	0.00009
	A1N	0.00116	0.00128	0.00166
	B0	0.00099	0.00110	0.00169
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00001	0.00003	0.00003
	B0	0.00012	0.00023	0.00081

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7R	A0	-0.00011	-0.00007	0.00015
	A0	0.00014	0.00014	0.00014
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00093	0.00103	0.00126
	A1N	0.00104	0.00118	0.00160
	A1N	0.00005	0.00005	0.00005
	A1N	-0.00009	-0.00009	-0.00009
	A1N	0.00099	0.00113	0.00155
	B0	-0.00000	0.00010	0.00067
	B0	0.00014	0.00014	0.00014
	B0	-0.00003	-0.00003	-0.00001
	B0	0.00072	0.00085	0.00144

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7R	(A1N * !B0 * Y)	-0.00016	-0.00016	-0.00016
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1N * !B0 * Y)	0.00001	0.00001	0.00002
	(A1N * !B0 * Y)	0.00026	0.00027	0.00027
	(!A1N * B0 * !Y)	-0.00017	-0.00016	-0.00015
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00026	0.00026	0.00027
	(!A1N * !B0 * Y)	-0.00019	-0.00018	-0.00017
	(!A1N * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1N * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1N * !B0 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7R	(A1N * !B0 * Y)	0.00016	0.00017	0.00017
	(A1N * !B0 * Y)	0.00000	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A1N * !B0 * Y)	-0.00027	-0.00026	-0.00024
	(!A1N * B0 * !Y)	0.00017	0.00018	0.00018
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1N * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1N * !B0 * Y)	0.00019	0.00019	0.00019
	(!A1N * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !B0 * Y)	-0.00024	-0.00024	-0.00024

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7R	(A0 * B0 * !Y)	-0.00008	0.00002	0.00040
	(A0 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00057	0.00067	0.00105
	(!B0 * Y)	0.00011	0.00022	0.00059
	(!B0 * Y)	0.00003	0.00004	0.00004
	(!B0 * Y)	-0.00002	-0.00002	-0.00002
	(!B0 * Y)	0.00075	0.00085	0.00123

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7R	(A0 * B0 * !Y)	0.00087	0.00099	0.00142
	(A0 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	0.00022	0.00034	0.00077
	(!B0 * Y)	0.00075	0.00086	0.00126
	(!B0 * Y)	-0.00004	-0.00004	-0.00003
	(!B0 * Y)	0.00002	0.00002	0.00002
	(!B0 * Y)	0.00010	0.00022	0.00063

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7R	(!A0 * A1N * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * A1N * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1N * Y)	0.00003	0.00003	0.00003
	(!A0 * A1N * Y)	0.00008	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

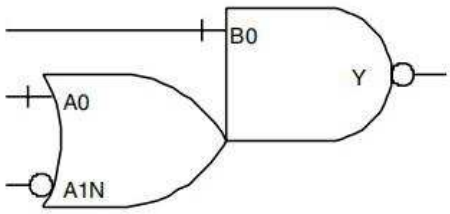
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X1P4H7R	(!A0 * A1N * Y)	0.00028	0.00028	0.00028
	(!A0 * A1N * Y)	0.00000	0.00001	0.00001
	(!A0 * A1N * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1N * Y)	-0.00009	-0.00009	-0.00008

OAI2XB1X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X2H7R	0.00094	0.00073	0.00103	0.04022

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X2H7R	0.00000	0.27549	0.39657

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X2H7R	A0->Y (FR)	0.03169	0.19004	0.66272
	A1N->Y (RR)	0.04507	0.18222	0.51589
	B0->Y (FR)	0.01372	0.11557	0.47690

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X2H7R	A0->Y (RF)	0.02124	0.13347	0.50236
	A1N->Y (FF)	0.04284	0.15213	0.41740
	B0->Y (RF)	0.01569	0.12551	0.50791

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X2H7R	A0	0.00142	0.00151	0.00182
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00013	0.00013	0.00013
	A0	0.00020	0.00026	0.00057
	A1N	0.00120	0.00132	0.00170
	A1N	-0.00007	-0.00007	-0.00007
	A1N	0.00011	0.00011	0.00011
	A1N	0.00119	0.00132	0.00169
	B0	0.00107	0.00122	0.00194
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00002	0.00003	0.00004
	B0	0.00013	0.00026	0.00096

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X2H7R	A0	-0.00013	-0.00008	0.00019
	A0	0.00017	0.00017	0.00017
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00109	0.00117	0.00145
	A1N	0.00108	0.00122	0.00164
	A1N	0.00007	0.00007	0.00007
	A1N	-0.00011	-0.00011	-0.00011
	A1N	0.00111	0.00125	0.00169
	B0	-0.00001	0.00011	0.00081
	B0	0.00017	0.00017	0.00017
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00078	0.00094	0.00166

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7R	(A1N * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1N * !B0 * Y)	0.00001	0.00001	0.00002
	(A1N * !B0 * Y)	0.00029	0.00029	0.00030
	(!A1N * B0 * !Y)	-0.00019	-0.00018	-0.00017
	(!A1N * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00030	0.00030	0.00030
	(!A1N * !B0 * Y)	-0.00022	-0.00021	-0.00020
	(!A1N * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1N * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1N * !B0 * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7R	(A1N * !B0 * Y)	0.00020	0.00020	0.00021
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A1N * !B0 * Y)	-0.00029	-0.00028	-0.00026
	(!A1N * B0 * !Y)	0.00020	0.00020	0.00020
	(!A1N * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	-0.00030	-0.00029	-0.00029
	(!A1N * !B0 * Y)	0.00022	0.00022	0.00022
	(!A1N * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1N * !B0 * Y)	-0.00027	-0.00027	-0.00026

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7R	(A0 * B0 * !Y)	-0.00008	0.00002	0.00040
	(A0 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !Y)	0.00058	0.00068	0.00105
	(!B0 * Y)	0.00014	0.00024	0.00061
	(!B0 * Y)	0.00004	0.00004	0.00004
	(!B0 * Y)	-0.00002	-0.00002	-0.00002
	(!B0 * Y)	0.00078	0.00088	0.00125

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7R	(A0 * B0 * !Y)	0.00091	0.00103	0.00145
	(A0 * B0 * !Y)	-0.00005	-0.00006	-0.00005
	(A0 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * B0 * !Y)	0.00025	0.00037	0.00079
	(!B0 * Y)	0.00077	0.00088	0.00128
	(!B0 * Y)	-0.00004	-0.00004	-0.00004
	(!B0 * Y)	0.00002	0.00002	0.00002
	(!B0 * Y)	0.00012	0.00024	0.00064

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7R	(!A0 * A1N * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * A1N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1N * Y)	0.00003	0.00003	0.00003
	(!A0 * A1N * Y)	0.00008	0.00008	0.00009

Passive power(pJ) for B0 falling (conditional):

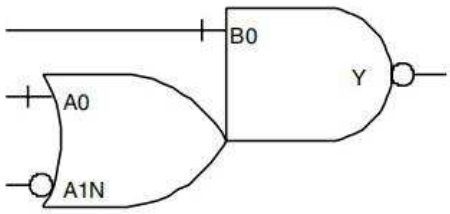
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X2H7R	(!A0 * A1N * Y)	0.00031	0.00031	0.00031
	(!A0 * A1N * Y)	0.00001	0.00001	0.00001
	(!A0 * A1N * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * A1N * Y)	-0.00009	-0.00008	-0.00008

OAI2XB1X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X3H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X3H7R	0.00160	0.00084	0.00155	0.06082

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X3H7R	0.00000	0.40963	0.58525

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X3H7R	A0->Y (FR)	0.03178	0.18682	0.65119
	A1N->Y (RR)	0.04266	0.17898	0.50874
	B0->Y (FR)	0.01206	0.11085	0.46575

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X3H7R	A0->Y (RF)	0.02115	0.13239	0.49810
	A1N->Y (FF)	0.04227	0.15191	0.41711
	B0->Y (RF)	0.01627	0.12608	0.50335

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X3H7R	A0	0.00244	0.00253	0.00301
	A0	-0.00026	-0.00025	-0.00025
	A0	0.00020	0.00020	0.00020
	A0	0.00039	0.00048	0.00095
	A1N	0.00185	0.00200	0.00250
	A1N	-0.00011	-0.00010	-0.00010
	A1N	0.00017	0.00018	0.00022
	A1N	0.00156	0.00172	0.00218
	B0	0.00173	0.00195	0.00316
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00004	0.00005	0.00006
	B0	0.00019	0.00041	0.00158

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X3H7R	A0	-0.00022	-0.00014	0.00028
	A0	0.00025	0.00025	0.00026
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00182	0.00191	0.00234
	A1N	0.00150	0.00168	0.00219
	A1N	0.00010	0.00010	0.00012
	A1N	-0.00019	-0.00018	-0.00017
	A1N	0.00182	0.00200	0.00254
	B0	-0.00005	0.00014	0.00134
	B0	0.00025	0.00025	0.00026
	B0	-0.00005	-0.00005	-0.00001
	B0	0.00123	0.00149	0.00272

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7R	(A1N * !B0 * Y)	-0.00037	-0.00037	-0.00037
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	0.00001	0.00002	0.00003
	(A1N * !B0 * Y)	0.00046	0.00046	0.00046
	(!A1N * B0 * !Y)	-0.00028	-0.00026	-0.00022
	(!A1N * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00055	0.00056	0.00058
	(!A1N * !B0 * Y)	-0.00035	-0.00033	-0.00031
	(!A1N * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1N * !B0 * Y)	0.00048	0.00048	0.00049

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7R	(A1N * !B0 * Y)	0.00037	0.00038	0.00039
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00003	-0.00002	-0.00001
	(A1N * !B0 * Y)	-0.00045	-0.00043	-0.00040
	(!A1N * B0 * !Y)	0.00028	0.00028	0.00028
	(!A1N * B0 * !Y)	0.00002	0.00003	0.00003
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	-0.00055	-0.00055	-0.00055
	(!A1N * !B0 * Y)	0.00034	0.00034	0.00035
	(!A1N * !B0 * Y)	0.00002	0.00003	0.00003
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !B0 * Y)	-0.00048	-0.00048	-0.00047

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7R	(A0 * B0 * !Y)	-0.00010	0.00002	0.00049
	(A0 * B0 * !Y)	0.00008	0.00008	0.00008
	(A0 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !Y)	0.00067	0.00079	0.00125
	(!B0 * Y)	0.00023	0.00035	0.00081
	(!B0 * Y)	0.00007	0.00007	0.00008
	(!B0 * Y)	-0.00003	-0.00003	-0.00003
	(!B0 * Y)	0.00097	0.00109	0.00154

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7R	(A0 * B0 * !Y)	0.00126	0.00140	0.00191
	(A0 * B0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * B0 * !Y)	0.00049	0.00064	0.00115
	(!B0 * Y)	0.00107	0.00120	0.00167
	(!B0 * Y)	-0.00008	-0.00007	-0.00007
	(!B0 * Y)	0.00003	0.00003	0.00003
	(!B0 * Y)	0.00032	0.00045	0.00094

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7R	(!A0 * A1N * Y)	-0.00046	-0.00045	-0.00045
	(!A0 * A1N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1N * Y)	0.00004	0.00005	0.00005
	(!A0 * A1N * Y)	0.00017	0.00017	0.00018

Passive power(pJ) for B0 falling (conditional):

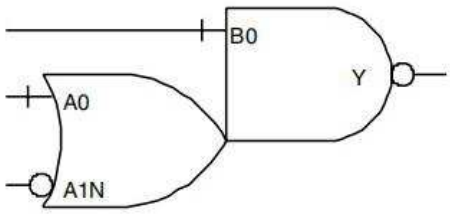
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X3H7R	(!A0 * A1N * Y)	0.00045	0.00046	0.00046
	(!A0 * A1N * Y)	0.00001	0.00001	0.00001
	(!A0 * A1N * Y)	-0.00005	-0.00004	-0.00004
	(!A0 * A1N * Y)	-0.00017	-0.00017	-0.00017

OAI2XB1X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X4H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X4H7R	0.00186	0.00086	0.00184	0.07959

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X4H7R	0.00000	0.50681	0.72225

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X4H7R	A0->Y (FR)	0.02895	0.18722	0.66330
	A1N->Y (RR)	0.03892	0.17757	0.51364
	B0->Y (FR)	0.01111	0.11120	0.47303

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X4H7R	A0->Y (RF)	0.01908	0.13068	0.49991
	A1N->Y (FF)	0.03934	0.15014	0.41810
	B0->Y (RF)	0.01485	0.12499	0.50541

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X4H7R	A0	0.00281	0.00298	0.00360
	A0	-0.00034	-0.00034	-0.00033
	A0	0.00026	0.00026	0.00026
	A0	0.00039	0.00050	0.00112
	A1N	0.00215	0.00234	0.00288
	A1N	-0.00014	-0.00014	-0.00013
	A1N	0.00020	0.00023	0.00028
	A1N	0.00168	0.00186	0.00240
	B0	0.00202	0.00232	0.00387
	B0	-0.00018	-0.00017	-0.00017
	B0	0.00004	0.00006	0.00009
	B0	0.00018	0.00046	0.00197

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X4H7R	A0	-0.00028	-0.00018	0.00038
	A0	0.00033	0.00034	0.00034
	A0	-0.00026	-0.00026	-0.00026
	A0	0.00213	0.00230	0.00287
	A1N	0.00161	0.00182	0.00240
	A1N	0.00014	0.00014	0.00016
	A1N	-0.00025	-0.00023	-0.00020
	A1N	0.00213	0.00234	0.00296
	B0	-0.00009	0.00016	0.00171
	B0	0.00033	0.00034	0.00034
	B0	-0.00006	-0.00006	-0.00003
	B0	0.00144	0.00176	0.00335

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7R	(A1N * !B0 * Y)	-0.00045	-0.00045	-0.00045
	(A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1N * !B0 * Y)	0.00003	0.00003	0.00004
	(A1N * !B0 * Y)	0.00050	0.00052	0.00052
	(!A1N * B0 * !Y)	-0.00035	-0.00032	-0.00028
	(!A1N * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1N * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1N * B0 * !Y)	0.00062	0.00063	0.00064
	(!A1N * !B0 * Y)	-0.00042	-0.00040	-0.00036
	(!A1N * !B0 * Y)	-0.00004	-0.00004	-0.00003
	(!A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1N * !B0 * Y)	0.00054	0.00055	0.00055

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7R	(A1N * !B0 * Y)	0.00046	0.00046	0.00047
	(A1N * !B0 * Y)	0.00001	0.00001	0.00001
	(A1N * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(A1N * !B0 * Y)	-0.00051	-0.00049	-0.00045
	(!A1N * B0 * !Y)	0.00035	0.00036	0.00036
	(!A1N * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1N * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1N * B0 * !Y)	-0.00062	-0.00062	-0.00061
	(!A1N * !B0 * Y)	0.00041	0.00042	0.00042
	(!A1N * !B0 * Y)	0.00003	0.00004	0.00004
	(!A1N * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1N * !B0 * Y)	-0.00055	-0.00055	-0.00054

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7R	(A0 * B0 * !Y)	-0.00011	0.00003	0.00056
	(A0 * B0 * !Y)	0.00010	0.00011	0.00011
	(A0 * B0 * !Y)	-0.00004	-0.00004	-0.00003
	(A0 * B0 * !Y)	0.00071	0.00085	0.00138
	(!B0 * Y)	0.00028	0.00042	0.00094
	(!B0 * Y)	0.00008	0.00008	0.00009
	(!B0 * Y)	-0.00004	-0.00004	-0.00004
	(!B0 * Y)	0.00106	0.00119	0.00171

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7R	(A0 * B0 * !Y)	0.00136	0.00152	0.00211
	(A0 * B0 * !Y)	-0.00010	-0.00010	-0.00010
	(A0 * B0 * !Y)	0.00004	0.00009	0.00041
	(A0 * B0 * !Y)	0.00021	0.00066	0.00130
	(!B0 * Y)	0.00115	0.00129	0.00183
	(!B0 * Y)	-0.00008	-0.00008	-0.00008
	(!B0 * Y)	0.00004	0.00004	0.00004
	(!B0 * Y)	0.00035	0.00051	0.00106

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7R	(!A0 * A1N * Y)	-0.00056	-0.00056	-0.00055
	(!A0 * A1N * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1N * Y)	0.00006	0.00006	0.00007
	(!A0 * A1N * Y)	0.00016	0.00017	0.00018

Passive power(pJ) for B0 falling (conditional):

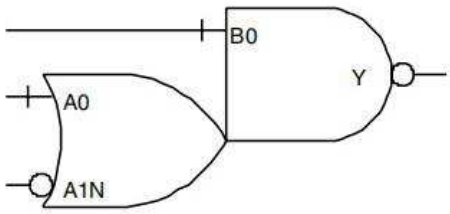
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X4H7R	(!A0 * A1N * Y)	0.00056	0.00056	0.00056
	(!A0 * A1N * Y)	0.00001	0.00001	0.00001
	(!A0 * A1N * Y)	-0.00006	-0.00006	-0.00005
	(!A0 * A1N * Y)	-0.00017	-0.00017	-0.00016

OAI2XB1X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI2XB1 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A0	A1N	B0	Y
x	x	0	1
x	0	1	0
0	1	1	1
1	1	1	0

Footprint

Cell Name	Area
OAI2XB1X6H7R	5.04000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A0	A1N	B0	Y
OAI2XB1X6H7R	0.00257	0.00107	0.00274	0.11719

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI2XB1X6H7R	0.00000	0.71455	1.01308

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X6H7R	A0->Y (FR)	0.02619	0.18197	0.65234
	A1N->Y (RR)	0.04100	0.18191	0.52110
	B0->Y (FR)	0.01026	0.10867	0.46815

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI2XB1X6H7R	A0->Y (RF)	0.01740	0.12783	0.49466
	A1N->Y (FF)	0.04335	0.15750	0.43110
	B0->Y (RF)	0.01388	0.12331	0.50340

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X6H7R	A0	0.00395	0.00414	0.00517
	A0	-0.00051	-0.00051	-0.00050
	A0	0.00039	0.00039	0.00039
	A0	0.00044	0.00060	0.00161
	A1N	0.00309	0.00330	0.00392
	A1N	-0.00022	-0.00022	-0.00020
	A1N	0.00035	0.00036	0.00043
	A1N	0.00238	0.00261	0.00323
	B0	0.00290	0.00334	0.00572
	B0	-0.00027	-0.00026	-0.00025
	B0	0.00005	0.00010	0.00019
	B0	0.00019	0.00062	0.00294

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI2XB1X6H7R	A0	-0.00039	-0.00024	0.00069
	A0	0.00050	0.00051	0.00051
	A0	-0.00039	-0.00039	-0.00039
	A0	0.00307	0.00330	0.00425
	A1N	0.00236	0.00263	0.00325
	A1N	0.00020	0.00022	0.00023
	A1N	-0.00038	-0.00036	-0.00035
	A1N	0.00312	0.00338	0.00400
	B0	-0.00016	0.00022	0.00264
	B0	0.00050	0.00051	0.00051
	B0	-0.00010	-0.00009	-0.00005
	B0	0.00217	0.00252	0.00498

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7R	(A1N * !B0 * Y)	-0.00058	-0.00058	-0.00058
	(A1N * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1N * !B0 * Y)	0.00004	0.00004	0.00006
	(A1N * !B0 * Y)	0.00082	0.00083	0.00084
	(!A1N * B0 * !Y)	-0.00060	-0.00056	-0.00050
	(!A1N * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(!A1N * B0 * !Y)	0.00001	0.00002	0.00002
	(!A1N * B0 * !Y)	0.00080	0.00082	0.00086
	(!A1N * !B0 * Y)	-0.00060	-0.00057	-0.00053
	(!A1N * !B0 * Y)	-0.00008	-0.00006	-0.00006
	(!A1N * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1N * !B0 * Y)	0.00079	0.00080	0.00081

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7R	(A1N * !B0 * Y)	0.00059	0.00060	0.00061
	(A1N * !B0 * Y)	0.00002	0.00002	0.00002
	(A1N * !B0 * Y)	-0.00006	-0.00004	-0.00004
	(A1N * !B0 * Y)	-0.00082	-0.00079	-0.00074
	(!A1N * B0 * !Y)	0.00061	0.00061	0.00061
	(!A1N * B0 * !Y)	0.00005	0.00005	0.00005
	(!A1N * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1N * B0 * !Y)	-0.00080	-0.00080	-0.00079
	(!A1N * !B0 * Y)	0.00058	0.00060	0.00060
	(!A1N * !B0 * Y)	0.00006	0.00006	0.00008
	(!A1N * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(!A1N * !B0 * Y)	-0.00080	-0.00079	-0.00079

Passive power(pJ) for A1N rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7R	(A0 * B0 * !Y)	-0.00013	0.00001	0.00056
	(A0 * B0 * !Y)	0.00015	0.00016	0.00016
	(A0 * B0 * !Y)	-0.00005	-0.00005	-0.00004
	(A0 * B0 * !Y)	0.00099	0.00114	0.00169
	(!B0 * Y)	0.00046	0.00060	0.00114
	(!B0 * Y)	0.00011	0.00012	0.00012
	(!B0 * Y)	-0.00005	-0.00005	-0.00005
	(!B0 * Y)	0.00151	0.00165	0.00219

Passive power(pJ) for A1N falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7R	(A0 * B0 * !Y)	0.00205	0.00222	0.00283
	(A0 * B0 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * B0 * !Y)	0.00004	0.00005	0.00005
	(A0 * B0 * !Y)	0.00093	0.00110	0.00171
	(!B0 * Y)	0.00173	0.00188	0.00243
	(!B0 * Y)	-0.00012	-0.00012	-0.00011
	(!B0 * Y)	0.00005	0.00005	0.00005
	(!B0 * Y)	0.00065	0.00081	0.00138

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7R	(!A0 * A1N * Y)	-0.00084	-0.00084	-0.00083
	(!A0 * A1N * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1N * Y)	0.00008	0.00009	0.00010
	(!A0 * A1N * Y)	0.00028	0.00028	0.00029

Passive power(pJ) for B0 falling (conditional):

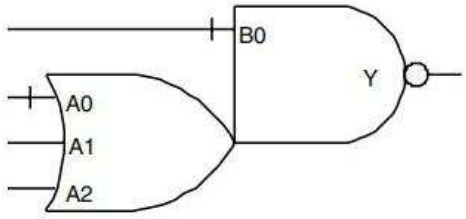
Cell Name	When	Power(pJ)		
		min	avg	max
OAI2XB1X6H7R	(!A0 * A1N * Y)	0.00084	0.00084	0.00085
	(!A0 * A1N * Y)	0.00002	0.00002	0.00002
	(!A0 * A1N * Y)	-0.00009	-0.00009	-0.00008
	(!A0 * A1N * Y)	-0.00028	-0.00028	-0.00028

OAI31X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X0P5H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X0P5H7R	0.00060	0.00061	0.00068	0.00074	0.01433

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X0P5H7R	0.00000	0.10820	0.24299

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X0P5H7R	A0->Y (FR)	0.05791	0.20139	0.60917
	A1->Y (FR)	0.05651	0.20790	0.64898
	A2->Y (FR)	0.05234	0.20431	0.65090
	B0->Y (FR)	0.01701	0.09451	0.37075

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X0P5H7R	A0->Y (RF)	0.02791	0.11347	0.39529
	A1->Y (RF)	0.02674	0.11073	0.39216
	A2->Y (RF)	0.02501	0.10721	0.38925
	B0->Y (RF)	0.02435	0.10846	0.39885

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X0P5H7R	A0	0.00103	0.00105	0.00119
	A0	-0.00013	-0.00013	-0.00012
	A0	0.00008	0.00008	0.00008
	A0	-0.00008	-0.00005	0.00008
	A1	0.00090	0.00094	0.00110
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00008	0.00008	0.00008
	A1	-0.00002	0.00002	0.00017
	A2	0.00079	0.00085	0.00108
	A2	-0.00005	-0.00005	-0.00004
	A2	0.00008	0.00008	0.00008
	A2	-0.00003	0.00002	0.00025
	B0	0.00079	0.00086	0.00126
	B0	-0.00005	-0.00004	-0.00004
	B0	0.00001	0.00002	0.00002
	B0	-0.00009	-0.00001	0.00042

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X0P5H7R	A0	-0.00006	-0.00004	0.00008
	A0	0.00012	0.00013	0.00013
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00102	0.00105	0.00118
	A1	-0.00006	-0.00004	0.00009
	A1	0.00009	0.00009	0.00009
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00087	0.00090	0.00103
	A2	-0.00008	-0.00004	0.00011
	A2	0.00004	0.00005	0.00005
	A2	-0.00008	-0.00008	-0.00008
	A2	0.00078	0.00081	0.00097
	B0	-0.00008	-0.00001	0.00038
	B0	0.00013	0.00013	0.00013
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00076	0.00082	0.00113

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7R	(A1 * A2 * B0 * !Y)	-0.00008	-0.00007	-0.00007
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !Y)	0.00023	0.00023	0.00024
	(A1 * !B0 * Y)	-0.00008	-0.00007	-0.00006
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00023	0.00023	0.00024
	(A1 * !A2 * B0 * !Y)	-0.00008	-0.00007	-0.00006
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	0.00023	0.00023	0.00024
	(!A1 * A2 * B0 * !Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !Y)	0.00023	0.00023	0.00024
	(!A1 * A2 * !B0 * Y)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	0.00023	0.00023	0.00024
	(!A1 * !A2 * !B0 * Y)	-0.00009	-0.00009	-0.00009
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7R	(A1 * A2 * B0 * !Y)	0.00008	0.00008	0.00008
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00024	-0.00023	-0.00023
	(A1 * !B0 * Y)	0.00008	0.00008	0.00008
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * B0 * !Y)	0.00008	0.00008	0.00008
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * B0 * !Y)	0.00008	0.00008	0.00008
	(!A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A1 * A2 * !B0 * Y)	0.00008	0.00008	0.00008
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A1 * !A2 * !B0 * Y)	0.00009	0.00009	0.00010
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7R	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00019	0.00019	0.00019
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00018	0.00018	0.00019
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00018	0.00018	0.00019
	(A0 * !A2 * !B0 * Y)	-0.00008	-0.00008	-0.00007
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * A2 * B0 * !Y)	-0.00008	-0.00008	-0.00006
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	0.00018	0.00019	0.00019
	(!A0 * A2 * !B0 * Y)	-0.00008	-0.00008	-0.00007
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B0 * Y)	-0.00010	-0.00010	-0.00010
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7R	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00018	-0.00018	-0.00018
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00019	-0.00018	-0.00018
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	-0.00019	-0.00018	-0.00018
	(A0 * !A2 * !B0 * Y)	0.00008	0.00008	0.00008
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A0 * A2 * !B0 * Y)	0.00008	0.00008	0.00008
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B0 * Y)	0.00010	0.00010	0.00011
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7R	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * Y)	-0.00012	-0.00012	-0.00010
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00018	0.00018	0.00018
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * !B0 * Y)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7R	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00018	-0.00018	-0.00018
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * !B0 * Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7R	(!A0 * !A1 * !A2 * Y)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * !A2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

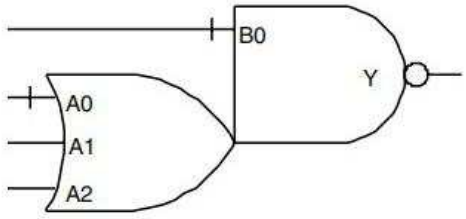
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P5H7R	(!A0 * !A1 * !A2 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !A2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * Y)	-0.00007	-0.00007	-0.00007

OAI31X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X0P7H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X0P7H7R	0.00064	0.00066	0.00071	0.00082	0.01619

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X0P7H7R	0.00000	0.12243	0.26787

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X0P7H7R	A0->Y (FR)	0.05522	0.19953	0.61162
	A1->Y (FR)	0.05379	0.20587	0.64986
	A2->Y (FR)	0.04902	0.20152	0.65118
	B0->Y (FR)	0.01625	0.09357	0.37123

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X0P7H7R	A0->Y (RF)	0.02653	0.11191	0.39423
	A1->Y (RF)	0.02541	0.10921	0.39156
	A2->Y (RF)	0.02345	0.10533	0.38785
	B0->Y (RF)	0.02331	0.10712	0.39794

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X0P7H7R	A0	0.00113	0.00116	0.00131
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00010	0.00010	0.00010
	A0	-0.00008	-0.00006	0.00009
	A1	0.00100	0.00104	0.00120
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00010	0.00010	0.00010
	A1	-0.00003	0.00000	0.00017
	A2	0.00086	0.00092	0.00119
	A2	-0.00005	-0.00005	-0.00005
	A2	0.00010	0.00010	0.00010
	A2	-0.00004	0.00002	0.00028
	B0	0.00088	0.00097	0.00140
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00002	0.00002	0.00002
	B0	-0.00010	-0.00001	0.00047

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X0P7H7R	A0	-0.00007	-0.00005	0.00009
	A0	0.00014	0.00015	0.00015
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00112	0.00116	0.00130
	A1	-0.00007	-0.00004	0.00010
	A1	0.00010	0.00010	0.00010
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00097	0.00100	0.00114
	A2	-0.00008	-0.00004	0.00013
	A2	0.00005	0.00005	0.00005
	A2	-0.00010	-0.00010	-0.00010
	A2	0.00085	0.00089	0.00107
	B0	-0.00009	-0.00001	0.00043
	B0	0.00014	0.00015	0.00015
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00084	0.00091	0.00126

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7R	(A1 * A2 * B0 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !Y)	0.00024	0.00024	0.00024
	(A1 * !B0 * Y)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00024	0.00024	0.00024
	(A1 * !A2 * B0 * !Y)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * B0 * !Y)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !Y)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * Y)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A1 * !A2 * !B0 * Y)	-0.00011	-0.00011	-0.00010
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7R	(A1 * A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * Y)	0.00009	0.00009	0.00009
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(A1 * !A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * A2 * B0 * !Y)	0.00009	0.00009	0.00009
	(!A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A1 * A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(!A1 * !A2 * !B0 * Y)	0.00011	0.00011	0.00011
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7R	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00020	0.00020	0.00020
	(A0 * !A2 * !B0 * Y)	-0.00009	-0.00009	-0.00008
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * A2 * B0 * !Y)	-0.00009	-0.00009	-0.00007
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	0.00020	0.00020	0.00021
	(!A0 * A2 * !B0 * Y)	-0.00009	-0.00009	-0.00007
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A2 * !B0 * Y)	-0.00011	-0.00011	-0.00011
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	0.00017	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7R	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * B0 * !Y)	0.00010	0.00010	0.00010
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * !B0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * Y)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * !B0 * Y)	0.00011	0.00011	0.00012
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7R	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00025	0.00025	0.00025
	(A1 * !B0 * Y)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00019	0.00019	0.00019
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00001
	(A0 * !A1 * B0 * !Y)	0.00025	0.00025	0.00025
	(A0 * !A1 * !B0 * Y)	-0.00013	-0.00011	-0.00009
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	0.00017	0.00017	0.00017

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7R	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00002	0.00003	0.00002
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !B0 * Y)	0.00013	0.00013	0.00013
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7R	(!A0 * !A1 * !A2 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !A2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

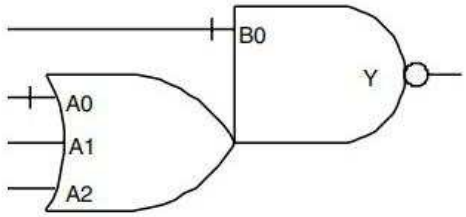
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X0P7H7R	(!A0 * !A1 * !A2 * Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * !A2 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * Y)	-0.00007	-0.00007	-0.00007

OAI31X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X1H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X1H7R	0.00068	0.00071	0.00076	0.00083	0.01929

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X1H7R	0.00000	0.14295	0.30347

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X1H7R	A0->Y (FR)	0.04998	0.19548	0.61229
	A1->Y (FR)	0.04811	0.20116	0.65024
	A2->Y (FR)	0.04294	0.19620	0.65028
	B0->Y (FR)	0.01433	0.09115	0.37128

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X1H7R	A0->Y (RF)	0.02453	0.11081	0.39839
	A1->Y (RF)	0.02336	0.10783	0.39524
	A2->Y (RF)	0.02116	0.10365	0.39107
	B0->Y (RF)	0.02101	0.10571	0.40073

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X1H7R	A0	0.00125	0.00128	0.00145
	A0	-0.00018	-0.00018	-0.00017
	A0	0.00011	0.00011	0.00011
	A0	-0.00008	-0.00005	0.00012
	A1	0.00108	0.00112	0.00133
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00011	0.00011	0.00011
	A1	-0.00004	0.00000	0.00020
	A2	0.00091	0.00098	0.00130
	A2	-0.00006	-0.00006	-0.00006
	A2	0.00011	0.00011	0.00011
	A2	-0.00003	0.00003	0.00034
	B0	0.00096	0.00106	0.00158
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00002	0.00002	0.00003
	B0	-0.00010	0.00001	0.00058

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X1H7R	A0	-0.00009	-0.00006	0.00011
	A0	0.00017	0.00018	0.00018
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00121	0.00126	0.00143
	A1	-0.00008	-0.00005	0.00012
	A1	0.00012	0.00012	0.00012
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00104	0.00108	0.00125
	A2	-0.00009	-0.00004	0.00018
	A2	0.00006	0.00006	0.00006
	A2	-0.00011	-0.00011	-0.00011
	A2	0.00089	0.00094	0.00116
	B0	-0.00010	-0.00001	0.00052
	B0	0.00017	0.00018	0.00018
	B0	-0.00002	-0.00002	-0.00002
	B0	0.00090	0.00098	0.00140

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7R	(A1 * A2 * B0 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00025	0.00026	0.00026
	(A1 * !B0 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00025	0.00026	0.00026
	(A1 * !A2 * B0 * !Y)	-0.00011	-0.00010	-0.00009
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * B0 * !Y)	-0.00011	-0.00009	-0.00008
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !Y)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B0 * Y)	-0.00010	-0.00009	-0.00008
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00026	0.00026	0.00026
	(!A1 * !A2 * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7R	(A1 * A2 * B0 * !Y)	0.00010	0.00011	0.00011
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00026	-0.00026	-0.00025
	(A1 * !B0 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00026	-0.00026	-0.00025
	(A1 * !A2 * B0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * B0 * !Y)	0.00010	0.00011	0.00011
	(!A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !Y)	-0.00026	-0.00026	-0.00025
	(!A1 * A2 * !B0 * Y)	0.00010	0.00010	0.00010
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00026	-0.00026	-0.00025
	(!A1 * !A2 * !B0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00024	-0.00022	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7R	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00022	0.00022	0.00022
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00021	0.00021	0.00021
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * B0 * !Y)	0.00000	0.00001	0.00000
	(A0 * !A2 * B0 * !Y)	0.00021	0.00021	0.00021
	(A0 * !A2 * !B0 * Y)	-0.00011	-0.00011	-0.00009
	(A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * A2 * B0 * !Y)	-0.00011	-0.00010	-0.00009
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !Y)	0.00021	0.00022	0.00023
	(!A0 * A2 * !B0 * Y)	-0.00011	-0.00011	-0.00009
	(!A0 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A2 * !B0 * Y)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7R	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * A2 * B0 * !Y)	-0.00000	-0.00001	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00006	0.00006	0.00006
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00004	0.00004	0.00004
	(A0 * !A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * !B0 * Y)	0.00011	0.00011	0.00011
	(A0 * !A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(A0 * !A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * B0 * !Y)	0.00012	0.00012	0.00012
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !Y)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * !B0 * Y)	0.00011	0.00011	0.00011
	(!A0 * A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A2 * !B0 * Y)	0.00013	0.00014	0.00014
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7R	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !Y)	0.00000	0.00001	0.00000
	(A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(A1 * !B0 * Y)	-0.00013	-0.00012	-0.00010
	(A1 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * Y)	0.00020	0.00021	0.00021
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00026	0.00026	0.00026
	(A0 * !A1 * !B0 * Y)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * !B0 * Y)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	0.00018	0.00019	0.00019

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7R	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * Y)	0.00013	0.00013	0.00013
	(A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * Y)	-0.00021	-0.00020	-0.00020
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !B0 * Y)	0.00012	0.00012	0.00012
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * Y)	-0.00000	-0.00001	-0.00000
	(A0 * !A1 * !B0 * Y)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7R	(!A0 * !A1 * !A2 * Y)	-0.00024	-0.00023	-0.00023
	(!A0 * !A1 * !A2 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

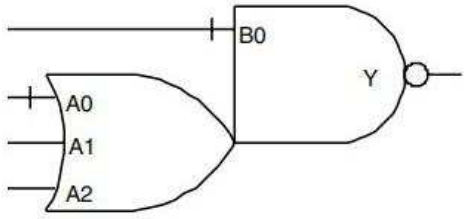
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1H7R	(!A0 * !A1 * !A2 * Y)	0.00023	0.00024	0.00024
	(!A0 * !A1 * !A2 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !A2 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * Y)	-0.00007	-0.00007	-0.00007

OAI31X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X1P4H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X1P4H7R	0.00075	0.00080	0.00085	0.00092	0.02191

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X1P4H7R	0.00000	0.16260	0.33974

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X1P4H7R	A0->Y (FR)	0.04937	0.19562	0.61519
	A1->Y (FR)	0.04809	0.20160	0.65170
	A2->Y (FR)	0.04275	0.19640	0.65138
	B0->Y (FR)	0.01379	0.09015	0.37113

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X1P4H7R	A0->Y (RF)	0.02411	0.11017	0.39733
	A1->Y (RF)	0.02313	0.10743	0.39437
	A2->Y (RF)	0.02097	0.10314	0.39047
	B0->Y (RF)	0.02012	0.10431	0.39953

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X1P4H7R	A0	0.00145	0.00149	0.00167
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00013	0.00013	0.00013
	A0	-0.00007	-0.00003	0.00015
	A1	0.00127	0.00132	0.00154
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00013	0.00013	0.00013
	A1	-0.00002	0.00003	0.00024
	A2	0.00107	0.00115	0.00150
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00013	0.00013	0.00013
	A2	-0.00003	0.00005	0.00039
	B0	0.00108	0.00119	0.00179
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00002	0.00003	0.00003
	B0	-0.00014	-0.00001	0.00065

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X1P4H7R	A0	-0.00010	-0.00007	0.00011
	A0	0.00020	0.00020	0.00020
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00140	0.00144	0.00162
	A1	-0.00010	-0.00006	0.00012
	A1	0.00014	0.00014	0.00014
	A1	-0.00013	-0.00013	-0.00012
	A1	0.00121	0.00124	0.00143
	A2	-0.00011	-0.00005	0.00019
	A2	0.00007	0.00007	0.00010
	A2	-0.00013	-0.00013	-0.00013
	A2	0.00104	0.00109	0.00134
	B0	-0.00012	-0.00001	0.00060
	B0	0.00020	0.00020	0.00020
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00103	0.00112	0.00161

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7R	(A1 * A2 * B0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00027	0.00027	0.00027
	(A1 * !B0 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * Y)	0.00027	0.00027	0.00027
	(A1 * !A2 * B0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * A2 * B0 * !Y)	-0.00012	-0.00011	-0.00009
	(!A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	0.00027	0.00027	0.00027
	(!A1 * A2 * !B0 * Y)	-0.00012	-0.00011	-0.00009
	(!A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00027	0.00027	0.00027
	(!A1 * !A2 * !B0 * Y)	-0.00014	-0.00014	-0.00014
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7R	(A1 * A2 * B0 * !Y)	0.00012	0.00012	0.00012
	(A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B0 * !Y)	0.00012	0.00013	0.00013
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !Y)	-0.00027	-0.00027	-0.00026
	(!A1 * A2 * B0 * !Y)	0.00012	0.00012	0.00012
	(!A1 * A2 * B0 * !Y)	0.00001	0.00002	0.00002
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * !B0 * Y)	0.00012	0.00012	0.00012
	(!A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * Y)	-0.00027	-0.00027	-0.00027
	(!A1 * !A2 * !B0 * Y)	0.00014	0.00014	0.00015
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00025	-0.00023	-0.00022

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7R	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00023	0.00023	0.00024
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00007	-0.00007	-0.00007
	(A0 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00023	0.00023	0.00023
	(A0 * !A2 * !B0 * Y)	-0.00013	-0.00012	-0.00010
	(A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * A2 * B0 * !Y)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * B0 * !Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00023	0.00023	0.00024
	(!A0 * A2 * !B0 * Y)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A2 * !B0 * Y)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A2 * !B0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7R	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00007	0.00007	0.00007
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00007	0.00007	0.00007
	(A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00005	0.00005	0.00005
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * !B0 * Y)	0.00013	0.00013	0.00013
	(A0 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B0 * !Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00002
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * !B0 * Y)	0.00015	0.00015	0.00016
	(!A0 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7R	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !Y)	0.00029	0.00030	0.00030
	(A1 * !B0 * Y)	-0.00016	-0.00015	-0.00013
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * Y)	0.00022	0.00022	0.00022
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00029	0.00030	0.00030
	(A0 * !A1 * !B0 * Y)	-0.00015	-0.00014	-0.00011
	(A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !B0 * Y)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7R	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00030	-0.00030	-0.00029
	(A1 * !B0 * Y)	0.00016	0.00016	0.00016
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00030	-0.00029	-0.00029
	(A0 * !A1 * !B0 * Y)	0.00015	0.00015	0.00015
	(A0 * !A1 * !B0 * Y)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7R	(!A0 * !A1 * !A2 * Y)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !A2 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

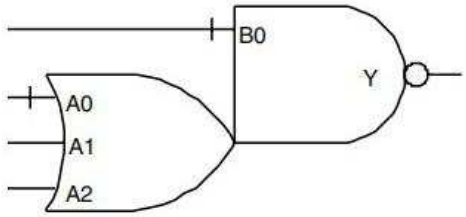
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X1P4H7R	(!A0 * !A1 * !A2 * Y)	0.00026	0.00026	0.00027
	(!A0 * !A1 * !A2 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * Y)	-0.00008	-0.00008	-0.00008

OAI31X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X2H7R	0.00087	0.00086	0.00099	0.00103	0.02577

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X2H7R	0.00000	0.19271	0.39797

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X2H7R	A0->Y (FR)	0.04678	0.19376	0.61679
	A1->Y (FR)	0.04489	0.19904	0.65205
	A2->Y (FR)	0.04039	0.19446	0.65284
	B0->Y (FR)	0.01323	0.08966	0.37175

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X2H7R	A0->Y (RF)	0.02244	0.10706	0.39193
	A1->Y (RF)	0.02140	0.10409	0.38851
	A2->Y (RF)	0.01966	0.10010	0.38471
	B0->Y (RF)	0.01906	0.10197	0.39370

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X2H7R	A0	0.00166	0.00170	0.00191
	A0	-0.00025	-0.00024	-0.00024
	A0	0.00016	0.00016	0.00019
	A0	-0.00014	-0.00009	0.00012
	A1	0.00143	0.00148	0.00174
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00016	0.00016	0.00016
	A1	-0.00005	-0.00000	0.00025
	A2	0.00122	0.00130	0.00172
	A2	-0.00009	-0.00009	-0.00008
	A2	0.00016	0.00016	0.00016
	A2	-0.00006	0.00002	0.00043
	B0	0.00127	0.00141	0.00210
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00003	0.00003	0.00003
	B0	-0.00013	0.00001	0.00078

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X2H7R	A0	-0.00012	-0.00008	0.00014
	A0	0.00024	0.00024	0.00025
	A0	-0.00017	-0.00016	-0.00016
	A0	0.00163	0.00168	0.00191
	A1	-0.00011	-0.00007	0.00016
	A1	0.00017	0.00017	0.00017
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00137	0.00143	0.00166
	A2	-0.00013	-0.00006	0.00023
	A2	0.00008	0.00009	0.00009
	A2	-0.00016	-0.00016	-0.00016
	A2	0.00119	0.00126	0.00156
	B0	-0.00014	-0.00001	0.00071
	B0	0.00024	0.00024	0.00025
	B0	-0.00003	-0.00003	-0.00002
	B0	0.00116	0.00130	0.00188

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7R	(A1 * A2 * B0 * !Y)	-0.00014	-0.00014	-0.00012
	(A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00032	0.00032	0.00032
	(A1 * !B0 * Y)	-0.00014	-0.00014	-0.00012
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00032	0.00032	0.00032
	(A1 * !A2 * B0 * !Y)	-0.00015	-0.00014	-0.00012
	(A1 * !A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * A2 * B0 * !Y)	-0.00014	-0.00013	-0.00010
	(!A1 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	0.00032	0.00032	0.00032
	(!A1 * A2 * !B0 * Y)	-0.00014	-0.00013	-0.00011
	(!A1 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00032	0.00032	0.00032
	(!A1 * !A2 * !B0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !A2 * !B0 * Y)	0.00029	0.00030	0.00030

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7R	(A1 * A2 * B0 * !Y)	0.00014	0.00015	0.00015
	(A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !Y)	-0.00032	-0.00032	-0.00032
	(A1 * !B0 * Y)	0.00014	0.00015	0.00015
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * B0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A1 * A2 * B0 * !Y)	0.00014	0.00014	0.00014
	(!A1 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !Y)	-0.00032	-0.00032	-0.00032
	(!A1 * A2 * !B0 * Y)	0.00014	0.00014	0.00014
	(!A1 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	-0.00032	-0.00032	-0.00032
	(!A1 * !A2 * !B0 * Y)	0.00017	0.00017	0.00018
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00029	-0.00028	-0.00026

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7R	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00026	0.00026	0.00026
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * Y)	0.00025	0.00025	0.00026
	(A0 * !A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00006	-0.00006	-0.00005
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00025	0.00026	0.00026
	(A0 * !A2 * !B0 * Y)	-0.00015	-0.00014	-0.00012
	(A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * A2 * B0 * !Y)	-0.00015	-0.00014	-0.00011
	(!A0 * A2 * B0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00025	0.00026	0.00027
	(!A0 * A2 * !B0 * Y)	-0.00015	-0.00014	-0.00012
	(!A0 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !A2 * !B0 * Y)	-0.00018	-0.00018	-0.00017
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A2 * !B0 * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7R	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00008	0.00008	0.00008
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	-0.00026	-0.00025	-0.00025
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00008	0.00008	0.00008
	(A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * !B0 * Y)	0.00015	0.00015	0.00015
	(A0 * !A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * B0 * !Y)	0.00015	0.00015	0.00016
	(!A0 * A2 * B0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * !B0 * Y)	0.00015	0.00015	0.00015
	(!A0 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A2 * !B0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * Y)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7R	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00034	0.00034	0.00034
	(A1 * !B0 * Y)	-0.00020	-0.00019	-0.00017
	(A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * Y)	0.00024	0.00024	0.00024
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00034	0.00034	0.00034
	(A0 * !A1 * !B0 * Y)	-0.00020	-0.00018	-0.00015
	(A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !B0 * Y)	-0.00023	-0.00023	-0.00022
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7R	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00004	0.00004	0.00004
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !Y)	-0.00034	-0.00034	-0.00034
	(A1 * !B0 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !Y)	-0.00034	-0.00034	-0.00034
	(A0 * !A1 * !B0 * Y)	0.00019	0.00019	0.00020
	(A0 * !A1 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * !B0 * Y)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00021	-0.00019	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7R	(!A0 * !A1 * !A2 * Y)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * !A2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * Y)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

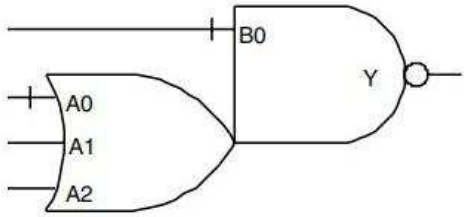
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X2H7R	(!A0 * !A1 * !A2 * Y)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !A2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * Y)	-0.00007	-0.00007	-0.00007

OAI31X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X3H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X3H7R	0.00151	0.00156	0.00202	0.00162	0.04011

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X3H7R	0.00000	0.30174	0.63777

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X3H7R	A0->Y (FR)	0.04740	0.19370	0.61435
	A1->Y (FR)	0.04462	0.19842	0.65066
	A2->Y (FR)	0.04233	0.19600	0.65360
	B0->Y (FR)	0.01290	0.08928	0.37131

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X3H7R	A0->Y (RF)	0.02284	0.10830	0.39532
	A1->Y (RF)	0.02149	0.10494	0.39167
	A2->Y (RF)	0.02069	0.10211	0.38901
	B0->Y (RF)	0.01863	0.10228	0.39632

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X3H7R	A0	0.00282	0.00289	0.00324
	A0	-0.00037	-0.00037	-0.00037
	A0	0.00024	0.00024	0.00024
	A0	-0.00012	-0.00005	0.00030
	A1	0.00243	0.00252	0.00295
	A1	-0.00027	-0.00026	-0.00025
	A1	0.00024	0.00024	0.00024
	A1	-0.00003	0.00005	0.00047
	A2	0.00219	0.00233	0.00298
	A2	-0.00013	-0.00013	-0.00013
	A2	0.00024	0.00024	0.00024
	A2	-0.00011	0.00003	0.00068
	B0	0.00214	0.00236	0.00349
	B0	-0.00014	-0.00014	-0.00013
	B0	0.00003	0.00005	0.00006
	B0	-0.00018	0.00006	0.00133

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X3H7R	A0	-0.00019	-0.00013	0.00023
	A0	0.00037	0.00037	0.00037
	A0	-0.00024	-0.00024	-0.00024
	A0	0.00267	0.00277	0.00314
	A1	-0.00019	-0.00011	0.00026
	A1	0.00025	0.00026	0.00029
	A1	-0.00024	-0.00024	-0.00024
	A1	0.00232	0.00239	0.00277
	A2	-0.00025	-0.00012	0.00033
	A2	0.00013	0.00013	0.00014
	A2	-0.00024	-0.00024	-0.00024
	A2	0.00212	0.00224	0.00270
	B0	-0.00022	-0.00001	0.00117
	B0	0.00037	0.00037	0.00037
	B0	-0.00005	-0.00005	-0.00001
	B0	0.00197	0.00215	0.00310

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7R	(A1 * A2 * B0 * !Y)	-0.00023	-0.00021	-0.00018
	(A1 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !Y)	0.00052	0.00052	0.00052
	(A1 * !B0 * Y)	-0.00023	-0.00021	-0.00018
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00052	0.00052	0.00052
	(A1 * !A2 * B0 * !Y)	-0.00023	-0.00021	-0.00018
	(A1 * !A2 * B0 * !Y)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00052	0.00052	0.00052
	(!A1 * A2 * B0 * !Y)	-0.00022	-0.00020	-0.00016
	(!A1 * A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	0.00052	0.00052	0.00052
	(!A1 * A2 * !B0 * Y)	-0.00022	-0.00020	-0.00016
	(!A1 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00052	0.00052	0.00052
	(!A1 * !A2 * !B0 * Y)	-0.00026	-0.00026	-0.00026
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !A2 * !B0 * Y)	0.00046	0.00047	0.00047

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7R	(A1 * A2 * B0 * !Y)	0.00022	0.00022	0.00023
	(A1 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	-0.00052	-0.00052	-0.00052
	(A1 * !B0 * Y)	0.00022	0.00022	0.00023
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00052	-0.00052	-0.00052
	(A1 * !A2 * B0 * !Y)	0.00023	0.00023	0.00023
	(A1 * !A2 * B0 * !Y)	0.00002	0.00003	0.00003
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	-0.00052	-0.00052	-0.00051
	(!A1 * A2 * B0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !Y)	-0.00052	-0.00052	-0.00051
	(!A1 * A2 * !B0 * Y)	0.00022	0.00022	0.00022
	(!A1 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	-0.00052	-0.00052	-0.00052
	(!A1 * !A2 * !B0 * Y)	0.00027	0.00027	0.00028
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !A2 * !B0 * Y)	-0.00047	-0.00044	-0.00039

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7R	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00012	-0.00012	-0.00012
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00043	0.00043	0.00043
	(A0 * A2 * !B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * Y)	-0.00012	-0.00012	-0.00012
	(A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * Y)	0.00042	0.00042	0.00043
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00008	-0.00008	-0.00008
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00042	0.00043	0.00043
	(A0 * !A2 * !B0 * Y)	-0.00023	-0.00021	-0.00018
	(A0 * !A2 * !B0 * Y)	-0.00004	-0.00003	-0.00003
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00042	0.00042	0.00042
	(!A0 * A2 * B0 * !Y)	-0.00024	-0.00022	-0.00018
	(!A0 * A2 * B0 * !Y)	-0.00003	-0.00002	-0.00002
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00042	0.00043	0.00045
	(!A0 * A2 * !B0 * Y)	-0.00024	-0.00022	-0.00019
	(!A0 * A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	0.00042	0.00042	0.00042
	(!A0 * !A2 * !B0 * Y)	-0.00028	-0.00028	-0.00027
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A2 * !B0 * Y)	0.00037	0.00038	0.00038

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7R	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00012	0.00012	0.00012
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	-0.00043	-0.00043	-0.00042
	(A0 * A2 * !B0 * Y)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * Y)	0.00012	0.00012	0.00012
	(A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * Y)	-0.00043	-0.00042	-0.00042
	(A0 * !A2 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00008	0.00009	0.00009
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	-0.00043	-0.00042	-0.00042
	(A0 * !A2 * !B0 * Y)	0.00023	0.00023	0.00023
	(A0 * !A2 * !B0 * Y)	0.00003	0.00003	0.00004
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	-0.00042	-0.00042	-0.00042
	(!A0 * A2 * B0 * !Y)	0.00024	0.00024	0.00025
	(!A0 * A2 * B0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	-0.00042	-0.00042	-0.00042
	(!A0 * A2 * !B0 * Y)	0.00023	0.00023	0.00024
	(!A0 * A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	-0.00042	-0.00042	-0.00042
	(!A0 * !A2 * !B0 * Y)	0.00028	0.00028	0.00029
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A2 * !B0 * Y)	-0.00037	-0.00035	-0.00030

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7R	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !Y)	0.00069	0.00069	0.00069
	(A1 * !B0 * Y)	-0.00041	-0.00039	-0.00036
	(A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * Y)	0.00044	0.00044	0.00044
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !Y)	0.00069	0.00069	0.00070
	(A0 * !A1 * !B0 * Y)	-0.00040	-0.00037	-0.00032
	(A0 * !A1 * !B0 * Y)	-0.00004	-0.00003	-0.00002
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	0.00044	0.00044	0.00044
	(!A0 * !A1 * !B0 * Y)	-0.00046	-0.00046	-0.00046
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !B0 * Y)	0.00039	0.00040	0.00040

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7R	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00006	0.00006	0.00006
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00069	-0.00069	-0.00069
	(A1 * !B0 * Y)	0.00041	0.00041	0.00041
	(A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00044	-0.00044	-0.00043
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00006	0.00006	0.00006
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !Y)	-0.00069	-0.00069	-0.00068
	(A0 * !A1 * !B0 * Y)	0.00040	0.00040	0.00040
	(A0 * !A1 * !B0 * Y)	0.00002	0.00003	0.00004
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	-0.00044	-0.00044	-0.00044
	(!A0 * !A1 * !B0 * Y)	0.00046	0.00046	0.00047
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00039	-0.00037	-0.00033

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7R	(!A0 * !A1 * !A2 * Y)	-0.00048	-0.00047	-0.00047
	(!A0 * !A1 * !A2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * Y)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * Y)	0.00014	0.00015	0.00015

Passive power(pJ) for B0 falling (conditional):

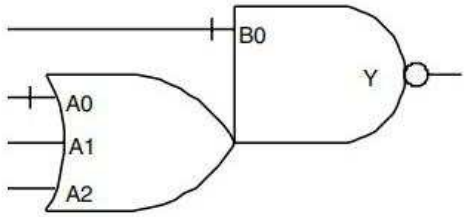
Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X3H7R	(!A0 * !A1 * !A2 * Y)	0.00048	0.00048	0.00048
	(!A0 * !A1 * !A2 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * Y)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * Y)	-0.00015	-0.00015	-0.00014

OAI31X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI31 cell provides the logical inverted AND of one OR group and an additional input. The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A0	A1	A2	B0	Y
0	0	0	x	1
0	x	1	0	1
0	x	1	1	0
x	1	x	0	1
x	1	x	1	0
1	x	x	0	1
1	x	x	1	0

Footprint

Cell Name	Area
OAI31X4H7R	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	A2	B0	Y
OAI31X4H7R	0.00168	0.00190	0.00231	0.00189	0.05133

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI31X4H7R	0.00000	0.38543	0.79595

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X4H7R	A0->Y (FR)	0.04436	0.19192	0.61740
	A1->Y (FR)	0.04334	0.19776	0.65337
	A2->Y (FR)	0.03923	0.19360	0.65513
	B0->Y (FR)	0.01197	0.08818	0.37192

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI31X4H7R	A0->Y (RF)	0.02134	0.10591	0.39149
	A1->Y (RF)	0.02061	0.10322	0.38915
	A2->Y (RF)	0.01916	0.09959	0.38569
	B0->Y (RF)	0.01725	0.10011	0.39359

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X4H7R	A0	0.00347	0.00355	0.00399
	A0	-0.00049	-0.00049	-0.00048
	A0	0.00032	0.00032	0.00032
	A0	-0.00011	-0.00003	0.00041
	A1	0.00304	0.00315	0.00367
	A1	-0.00034	-0.00034	-0.00033
	A1	0.00031	0.00032	0.00032
	A1	-0.00010	0.00001	0.00052
	A2	0.00266	0.00282	0.00365
	A2	-0.00018	-0.00017	-0.00017
	A2	0.00031	0.00032	0.00032
	A2	-0.00017	0.00002	0.00084
	B0	0.00264	0.00291	0.00436
	B0	-0.00018	-0.00017	-0.00017
	B0	0.00006	0.00006	0.00008
	B0	-0.00024	0.00007	0.00168

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI31X4H7R	A0	-0.00024	-0.00017	0.00029
	A0	0.00048	0.00049	0.00049
	A0	-0.00032	-0.00032	-0.00032
	A0	0.00324	0.00336	0.00382
	A1	-0.00023	-0.00014	0.00031
	A1	0.00033	0.00034	0.00034
	A1	-0.00032	-0.00032	-0.00031
	A1	0.00292	0.00303	0.00349
	A2	-0.00031	-0.00015	0.00044
	A2	0.00017	0.00018	0.00018
	A2	-0.00032	-0.00032	-0.00031
	A2	0.00259	0.00274	0.00335
	B0	-0.00027	-0.00001	0.00150
	B0	0.00048	0.00049	0.00049
	B0	-0.00006	-0.00006	-0.00004
	B0	0.00237	0.00266	0.00386

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7R	(A1 * A2 * B0 * !Y)	-0.00029	-0.00027	-0.00024
	(A1 * A2 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * A2 * B0 * !Y)	0.00050	0.00051	0.00051
	(A1 * !B0 * Y)	-0.00031	-0.00028	-0.00025
	(A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * Y)	0.00049	0.00050	0.00050
	(A1 * !A2 * B0 * !Y)	-0.00029	-0.00027	-0.00023
	(A1 * !A2 * B0 * !Y)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !Y)	0.00051	0.00051	0.00051
	(!A1 * A2 * B0 * !Y)	-0.00029	-0.00026	-0.00021
	(!A1 * A2 * B0 * !Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !Y)	0.00051	0.00051	0.00051
	(!A1 * A2 * !B0 * Y)	-0.00030	-0.00027	-0.00023
	(!A1 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A1 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * Y)	0.00050	0.00050	0.00050
	(!A1 * !A2 * !B0 * Y)	-0.00035	-0.00035	-0.00035
	(!A1 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A1 * !A2 * !B0 * Y)	0.00044	0.00045	0.00045

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7R	(A1 * A2 * B0 * !Y)	0.00029	0.00029	0.00029
	(A1 * A2 * B0 * !Y)	0.00004	0.00004	0.00004
	(A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !Y)	-0.00051	-0.00051	-0.00050
	(A1 * !B0 * Y)	0.00030	0.00030	0.00031
	(A1 * !B0 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00050	-0.00049	-0.00049
	(A1 * !A2 * B0 * !Y)	0.00030	0.00030	0.00030
	(A1 * !A2 * B0 * !Y)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !Y)	-0.00051	-0.00051	-0.00050
	(!A1 * A2 * B0 * !Y)	0.00028	0.00028	0.00029
	(!A1 * A2 * B0 * !Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !Y)	-0.00051	-0.00051	-0.00050
	(!A1 * A2 * !B0 * Y)	0.00029	0.00029	0.00030
	(!A1 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A1 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * Y)	-0.00050	-0.00049	-0.00049
	(!A1 * !A2 * !B0 * Y)	0.00036	0.00036	0.00037
	(!A1 * !A2 * !B0 * Y)	0.00000	0.00001	0.00002
	(!A1 * !A2 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A1 * !A2 * !B0 * Y)	-0.00044	-0.00042	-0.00037

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7R	(A0 * A2 * B0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !Y)	-0.00015	-0.00015	-0.00015
	(A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !Y)	0.00056	0.00056	0.00056
	(A0 * A2 * !B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * !B0 * Y)	-0.00016	-0.00016	-0.00016
	(A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * Y)	0.00054	0.00054	0.00054
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	-0.00011	-0.00011	-0.00010
	(A0 * !A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !Y)	0.00055	0.00056	0.00056
	(A0 * !A2 * !B0 * Y)	-0.00031	-0.00029	-0.00025
	(A0 * !A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * Y)	0.00053	0.00053	0.00053
	(!A0 * A2 * B0 * !Y)	-0.00030	-0.00027	-0.00023
	(!A0 * A2 * B0 * !Y)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * B0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !Y)	0.00055	0.00056	0.00058
	(!A0 * A2 * !B0 * Y)	-0.00031	-0.00029	-0.00025
	(!A0 * A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * Y)	0.00053	0.00053	0.00053
	(!A0 * !A2 * !B0 * Y)	-0.00037	-0.00036	-0.00036
	(!A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * !A2 * !B0 * Y)	0.00046	0.00046	0.00047

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7R	(A0 * A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !Y)	0.00015	0.00015	0.00015
	(A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !Y)	-0.00056	-0.00055	-0.00055
	(A0 * A2 * !B0 * Y)	0.00002	0.00002	0.00002
	(A0 * A2 * !B0 * Y)	0.00016	0.00016	0.00016
	(A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * Y)	-0.00054	-0.00054	-0.00053
	(A0 * !A2 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !Y)	-0.00055	-0.00055	-0.00053
	(A0 * !A2 * !B0 * Y)	0.00031	0.00031	0.00031
	(A0 * !A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(A0 * !A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * Y)	-0.00053	-0.00053	-0.00053
	(!A0 * A2 * B0 * !Y)	0.00031	0.00031	0.00031
	(!A0 * A2 * B0 * !Y)	0.00003	0.00003	0.00004
	(!A0 * A2 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !Y)	-0.00055	-0.00055	-0.00054
	(!A0 * A2 * !B0 * Y)	0.00031	0.00031	0.00031
	(!A0 * A2 * !B0 * Y)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * Y)	-0.00053	-0.00053	-0.00053
	(!A0 * !A2 * !B0 * Y)	0.00037	0.00038	0.00039
	(!A0 * !A2 * !B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(!A0 * !A2 * !B0 * Y)	-0.00045	-0.00041	-0.00035

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7R	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * !Y)	0.00001	0.00001	0.00002
	(A1 * B0 * !Y)	0.00079	0.00080	0.00080
	(A1 * !B0 * Y)	-0.00051	-0.00048	-0.00043
	(A1 * !B0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * Y)	0.00049	0.00049	0.00049
	(A0 * !A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * B0 * !Y)	0.00001	0.00001	0.00002
	(A0 * !A1 * B0 * !Y)	0.00079	0.00079	0.00080
	(A0 * !A1 * !B0 * Y)	-0.00050	-0.00045	-0.00039
	(A0 * !A1 * !B0 * Y)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * Y)	0.00049	0.00049	0.00049
	(!A0 * !A1 * !B0 * Y)	-0.00057	-0.00056	-0.00056
	(!A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * Y)	0.00043	0.00044	0.00044

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7R	(A1 * B0 * !Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !Y)	0.00008	0.00008	0.00008
	(A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !Y)	-0.00080	-0.00079	-0.00079
	(A1 * !B0 * Y)	0.00050	0.00050	0.00051
	(A1 * !B0 * Y)	0.00004	0.00004	0.00004
	(A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * Y)	-0.00049	-0.00049	-0.00048
	(A0 * !A1 * B0 * !Y)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !Y)	0.00007	0.00007	0.00008
	(A0 * !A1 * B0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !Y)	-0.00079	-0.00079	-0.00077
	(A0 * !A1 * !B0 * Y)	0.00049	0.00050	0.00050
	(A0 * !A1 * !B0 * Y)	0.00003	0.00004	0.00004
	(A0 * !A1 * !B0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * Y)	-0.00049	-0.00049	-0.00049
	(!A0 * !A1 * !B0 * Y)	0.00057	0.00057	0.00058
	(!A0 * !A1 * !B0 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * Y)	-0.00043	-0.00040	-0.00035

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7R	(!A0 * !A1 * !A2 * Y)	-0.00058	-0.00058	-0.00058
	(!A0 * !A1 * !A2 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * Y)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !A2 * Y)	0.00012	0.00012	0.00013

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI31X4H7R	(!A0 * !A1 * !A2 * Y)	0.00058	0.00058	0.00059
	(!A0 * !A1 * !A2 * Y)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !A2 * Y)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * Y)	-0.00012	-0.00012	-0.00012

OAI32X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X0P5H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X0P5H7R	0.00060	0.00062	0.00071	0.00064	0.00075	0.01375

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X0P5H7R	0.00000	0.11746	0.28941

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X0P5H7R	A0->YN (FR)	0.07084	0.21096	0.60670
	A1->YN (FR)	0.06896	0.21741	0.64659
	A2->YN (FR)	0.06507	0.21426	0.64846
	B0->YN (FR)	0.03235	0.14175	0.48332
	B1->YN (FR)	0.03135	0.14341	0.50426

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X0P5H7R	A0->YN (RF)	0.03415	0.12015	0.39411
	A1->YN (RF)	0.03269	0.11735	0.39123
	A2->YN (RF)	0.03097	0.11441	0.38865
	B0->YN (RF)	0.02687	0.11033	0.39188
	B1->YN (RF)	0.02574	0.10783	0.39103

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X0P5H7R	A0	0.00135	0.00138	0.00149
	A0	-0.00013	-0.00013	-0.00012
	A0	0.00012	0.00013	0.00013
	A0	-0.00004	-0.00001	0.00010
	A1	0.00123	0.00126	0.00140
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00012	0.00013	0.00013
	A1	0.00002	0.00005	0.00018
	A2	0.00112	0.00117	0.00138
	A2	-0.00005	-0.00005	-0.00004
	A2	0.00012	0.00013	0.00013
	A2	0.00002	0.00007	0.00028
	B0	0.00097	0.00102	0.00123
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00003	0.00004	0.00004
	B0	-0.00011	-0.00006	0.00018
	B1	0.00087	0.00094	0.00124
	B1	-0.00005	-0.00004	-0.00004
	B1	0.00003	0.00003	0.00004
	B1	-0.00006	0.00001	0.00034

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X0P5H7R	A0	-0.00006	-0.00005	0.00007
	A0	0.00017	0.00017	0.00017
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00131	0.00134	0.00144
	A1	-0.00007	-0.00004	0.00007
	A1	0.00013	0.00013	0.00013
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00116	0.00118	0.00128
	A2	-0.00007	-0.00003	0.00010
	A2	0.00009	0.00009	0.00009
	A2	-0.00012	-0.00012	-0.00012
	A2	0.00107	0.00109	0.00121
	B0	-0.00007	-0.00001	0.00028
	B0	0.00017	0.00017	0.00017
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00092	0.00100	0.00125
	B1	-0.00007	-0.00001	0.00031
	B1	0.00012	0.00013	0.00013
	B1	-0.00004	-0.00003	-0.00003
	B1	0.00083	0.00087	0.00113

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P5H7R	**(A1 * A2 * B1 * !YN)**	-0.00008	-0.00007	-0.00007
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B1 * !YN)	0.00024	0.00024	0.00024
	(A1 * A2 * B0 * !B1 * !YN)	-0.00008	-0.00007	-0.00007
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !B1 * !YN)	0.00024	0.00024	0.00024
	(A1 * !B0 * !B1 * YN)	-0.00008	-0.00007	-0.00006
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * YN)	0.00024	0.00024	0.00024
	(A1 * !A2 * B1 * !YN)	-0.00008	-0.00007	-0.00006
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00024	0.00024	0.00024
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00008	-0.00007	-0.00006
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00023	0.00024	0.00024
	(!A1 * A2 * B1 * !YN)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !YN)	0.00024	0.00024	0.00024
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	0.00024	0.00024	0.00024
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00008	-0.00007	-0.00006
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	0.00024	0.00024	0.00024
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00009	-0.00009	-0.00009
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P5H7R	**(A1 * A2 * B1 * !YN)**	0.00008	0.00008	0.00008
	(A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B1 * !YN)	-0.00024	-0.00024	-0.00024
	(A1 * A2 * B0 * !B1 * !YN)	0.00008	0.00008	0.00008
	(A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !YN)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !B1 * YN)	0.00008	0.00008	0.00008
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00024	-0.00024	-0.00024
	(A1 * !A2 * B1 * !YN)	0.00008	0.00008	0.00008
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00024	-0.00024	-0.00023
	(A1 * !A2 * B0 * !B1 * !YN)	0.00008	0.00008	0.00008
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00024	-0.00024	-0.00023
	(!A1 * A2 * B1 * !YN)	0.00008	0.00008	0.00008
	(!A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !YN)	-0.00024	-0.00024	-0.00024
	(!A1 * A2 * B0 * !B1 * !YN)	0.00008	0.00008	0.00008
	(!A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00024	-0.00024	-0.00024
	(!A1 * A2 * !B0 * !B1 * YN)	0.00008	0.00008	0.00008
	(!A1 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00024	-0.00024	-0.00024
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00009	0.00010	0.00010
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

	(A0 * A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00019	0.00019	0.00019
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00019	0.00019	0.00019
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00019	0.00019	0.00019
	(A0 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00019	0.00019	0.00019
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00019	0.00019	0.00019
OAI32X0P5H7R	**(A0 * !A2 * !B0 * !B1 * YN)**	-0.00009	-0.00008	-0.00007
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	0.00018	0.00019	0.00019
	(!A0 * A2 * B1 * !YN)	-0.00009	-0.00008	-0.00007
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B1 * !YN)	0.00019	0.00019	0.00020
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00009	-0.00008	-0.00007
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	0.00019	0.00019	0.00020
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00009	-0.00008	-0.00007
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	0.00019	0.00019	0.00019
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00010	-0.00010	-0.00010
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00017	0.00017	0.00017

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P5H7R	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00019	-0.00019	-0.00019
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00019	-0.00019	-0.00019
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00019	-0.00019	-0.00019
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B1 * !YN)	-0.00019	-0.00019	-0.00019
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00019	-0.00019	-0.00019
	(A0 * !A2 * !B0 * !B1 * YN)	0.00008	0.00009	0.00009
	(A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00019	-0.00018	-0.00018
	(!A0 * A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(!A0 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !YN)	-0.00019	-0.00019	-0.00019
	(!A0 * A2 * B0 * !B1 * !YN)	0.00009	0.00009	0.00009
	(!A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00019	-0.00019	-0.00019
	(!A0 * A2 * !B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(!A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00019	-0.00018	-0.00018
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00010	0.00010	0.00011
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00017	-0.00015	-0.00014

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7R	(A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00024	0.00024	0.00024
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00024	0.00024	0.00024
	(A1 * !B0 * !B1 * YN)	-0.00010	-0.00010	-0.00008
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * YN)	0.00019	0.00019	0.00019
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00024	0.00024	0.00024
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00024	0.00024	0.00024
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00010	-0.00009	-0.00007
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00017	0.00017	0.00017

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7R	(A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !YN)	-0.00024	-0.00024	-0.00024
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !YN)	-0.00024	-0.00024	-0.00024
	(A1 * !B0 * !B1 * YN)	0.00010	0.00010	0.00010
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00019	-0.00019	-0.00019
	(A0 * !A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * !B0 * !B1 * YN)	0.00010	0.00010	0.00010
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00012	0.00012	0.00013
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00017	-0.00015	-0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7R	(A2 * B1 * !YN)	-0.00008	-0.00007	-0.00006
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00026	0.00026	0.00027
	(A1 * !A2 * B1 * !YN)	-0.00008	-0.00007	-0.00007
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00026	0.00026	0.00027
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00008	-0.00007	-0.00007
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00026	0.00026	0.00027
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00015	-0.00015	-0.00014
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00010	0.00010	0.00011

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7R	(A2 * B1 * !YN)	0.00008	0.00008	0.00008
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * !A2 * B1 * !YN)	0.00008	0.00008	0.00008
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !A2 * B1 * !YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !A2 * B1 * YN)	0.00015	0.00015	0.00015
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7R	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00026	0.00026	0.00027
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00026	0.00026	0.00027
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00026	0.00026	0.00027
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00021	-0.00020	-0.00020
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P5H7R	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !YN)	-0.00027	-0.00026	-0.00026
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !YN)	-0.00027	-0.00026	-0.00026
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00027	-0.00026	-0.00026
	(!A0 * !A1 * !A2 * B0 * YN)	0.00019	0.00019	0.00020
	(!A0 * !A1 * !A2 * B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00004

OAI32X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X0P7H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X0P7H7R	0.00064	0.00070	0.00077	0.00069	0.00079	0.01557

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X0P7H7R	0.00000	0.13270	0.32636

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X0P7H7R	A0->YN (FR)	0.06714	0.20833	0.60895
	A1->YN (FR)	0.06563	0.21488	0.64672
	A2->YN (FR)	0.06110	0.21095	0.64784
	B0->YN (FR)	0.03068	0.14036	0.48519
	B1->YN (FR)	0.02927	0.14155	0.50518

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X0P7H7R	A0->YN (RF)	0.03239	0.11824	0.39413
	A1->YN (RF)	0.03115	0.11560	0.39088
	A2->YN (RF)	0.02916	0.11237	0.38787
	B0->YN (RF)	0.02550	0.10871	0.39086
	B1->YN (RF)	0.02417	0.10601	0.38950

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X0P7H7R	A0	0.00148	0.00151	0.00163
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00014	0.00014	0.00014
	A0	-0.00005	-0.00002	0.00011
	A1	0.00133	0.00138	0.00153
	A1	-0.00011	-0.00010	-0.00010
	A1	0.00014	0.00014	0.00014
	A1	-0.00001	0.00003	0.00017
	A2	0.00121	0.00126	0.00151
	A2	-0.00005	-0.00005	-0.00005
	A2	0.00014	0.00014	0.00014
	A2	0.00001	0.00006	0.00030
	B0	0.00107	0.00112	0.00137
	B0	-0.00010	-0.00010	-0.00010
	B0	0.00004	0.00004	0.00004
	B0	-0.00012	-0.00006	0.00021
	B1	0.00096	0.00103	0.00137
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00004	0.00004	0.00004
	B1	-0.00007	0.00001	0.00038

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X0P7H7R	A0	-0.00007	-0.00005	0.00007
	A0	0.00019	0.00019	0.00019
	A0	-0.00014	-0.00014	-0.00013
	A0	0.00143	0.00146	0.00157
	A1	-0.00007	-0.00005	0.00008
	A1	0.00015	0.00015	0.00015
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00129	0.00132	0.00143
	A2	-0.00008	-0.00004	0.00011
	A2	0.00010	0.00010	0.00010
	A2	-0.00014	-0.00014	-0.00013
	A2	0.00117	0.00120	0.00133
	B0	-0.00008	-0.00002	0.00031
	B0	0.00019	0.00019	0.00019
	B0	-0.00004	-0.00004	-0.00003
	B0	0.00101	0.00110	0.00138
	B1	-0.00013	-0.00001	0.00036
	B1	0.00014	0.00015	0.00017
	B1	-0.00004	-0.00004	-0.00002
	B1	0.00088	0.00096	0.00125

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P7H7R	**(A1 * A2 * B1 * !YN)**	-0.00009	-0.00008	-0.00007
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(A1 * A2 * B1 * !YN)	0.00025	0.00025	0.00025
	(A1 * A2 * B0 * !B1 * !YN)	-0.00009	-0.00008	-0.00007
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !B1 * !YN)	0.00025	0.00025	0.00025
	(A1 * !B0 * !B1 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * YN)	0.00025	0.00025	0.00025
	(A1 * !A2 * B1 * !YN)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * B1 * !YN)	0.00025	0.00025	0.00025
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00024	0.00025	0.00025
	(!A1 * A2 * B1 * !YN)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B1 * !YN)	0.00025	0.00025	0.00025
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00011	-0.00011	-0.00010
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P7H7R	**(A1 * A2 * B1 * !YN)**	0.00009	0.00009	0.00009
	(A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B1 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * A2 * B0 * !B1 * !YN)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00025	-0.00025	-0.00025
	(A1 * !A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00025	-0.00025	-0.00024
	(A1 * !A2 * B0 * !B1 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00025	-0.00025	-0.00024
	(!A1 * A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(!A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !YN)	-0.00025	-0.00025	-0.00024
	(!A1 * A2 * B0 * !B1 * !YN)	0.00009	0.00009	0.00009
	(!A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00025	-0.00025	-0.00024
	(!A1 * A2 * !B0 * !B1 * YN)	0.00009	0.00009	0.00009
	(!A1 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00025	-0.00025	-0.00025
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00011	0.00011	0.00011
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P7H7R	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00022	0.00022	0.00022
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00022	0.00022	0.00022
	(A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00021	0.00021	0.00021
	(A0 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A2 * B1 * !YN)	0.00022	0.00022	0.00022
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00022	0.00022	0.00022
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00010	-0.00009	-0.00008
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	0.00021	0.00021	0.00021
	(!A0 * A2 * B1 * !YN)	-0.00010	-0.00009	-0.00007
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B1 * !YN)	0.00022	0.00022	0.00023
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00010	-0.00009	-0.00007
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	0.00022	0.00022	0.00023
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00010	-0.00010	-0.00009
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00012	-0.00012	-0.00012
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X0P7H7R	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00021	-0.00021	-0.00021
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * B1 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * !B0 * !B1 * YN)	0.00010	0.00010	0.00010
	(A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * B1 * !YN)	0.00010	0.00010	0.00010
	(!A0 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !YN)	-0.00022	-0.00022	-0.00022
	(!A0 * A2 * B0 * !B1 * !YN)	0.00010	0.00010	0.00010
	(!A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00022	-0.00022	-0.00022
	(!A0 * A2 * !B0 * !B1 * YN)	0.00010	0.00010	0.00010
	(!A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00012	0.00012	0.00013
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00019	-0.00017	-0.00016

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7R	(A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00025	0.00025	0.00025
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00025	0.00025	0.00025
	(A1 * !B0 * !B1 * YN)	-0.00011	-0.00011	-0.00009
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * YN)	0.00020	0.00020	0.00021
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00011	-0.00010	-0.00008
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00018	0.00018	0.00018

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7R	(A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !B1 * YN)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !B0 * !B1 * YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00013	0.00014	0.00014
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00018	-0.00016	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7R	(A2 * B1 * !YN)	-0.00009	-0.00008	-0.00007
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00027	0.00027	0.00028
	(A1 * !A2 * B1 * !YN)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00027	0.00028	0.00028
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00027	0.00028	0.00028
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00017	-0.00016	-0.00015
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00018	-0.00018	-0.00017
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00010	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7R	(A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * !A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !A2 * B1 * YN)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00010	-0.00010	-0.00010

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7R	(A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B0 * !YN)	0.00000	0.00000	0.00001
	(A2 * B0 * !YN)	0.00028	0.00028	0.00028
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00028	0.00028	0.00028
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X0P7H7R	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !YN)	-0.00028	-0.00028	-0.00028
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * !A2 * B0 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00004

OAI32X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X1H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X1H7R	0.00070	0.00074	0.00081	0.00075	0.00083	0.01860

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X1H7R	0.00000	0.15464	0.37703

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X1H7R	A0->YN (FR)	0.05844	0.20187	0.60973
	A1->YN (FR)	0.05700	0.20812	0.64755
	A2->YN (FR)	0.05181	0.20344	0.64782
	B0->YN (FR)	0.02805	0.13833	0.48770
	B1->YN (FR)	0.02585	0.13849	0.50545

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X1H7R	A0->YN (RF)	0.03036	0.11721	0.39703
	A1->YN (RF)	0.02904	0.11452	0.39522
	A2->YN (RF)	0.02698	0.11096	0.39196
	B0->YN (RF)	0.02420	0.10854	0.39717
	B1->YN (RF)	0.02233	0.10522	0.39391

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X1H7R	A0	0.00165	0.00168	0.00183
	A0	-0.00018	-0.00018	-0.00017
	A0	0.00017	0.00017	0.00017
	A0	-0.00006	-0.00003	0.00011
	A1	0.00148	0.00153	0.00170
	A1	-0.00013	-0.00012	-0.00012
	A1	0.00017	0.00017	0.00017
	A1	-0.00001	0.00003	0.00020
	A2	0.00132	0.00138	0.00167
	A2	-0.00007	-0.00006	-0.00006
	A2	0.00017	0.00017	0.00017
	A2	-0.00001	0.00005	0.00033
	B0	0.00121	0.00128	0.00156
	B0	-0.00012	-0.00012	-0.00012
	B0	0.00005	0.00005	0.00005
	B0	-0.00012	-0.00006	0.00026
	B1	0.00105	0.00114	0.00155
	B1	-0.00006	-0.00006	-0.00006
	B1	0.00005	0.00005	0.00005
	B1	-0.00009	0.00000	0.00045

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X1H7R	A0	-0.00009	-0.00006	0.00009
	A0	0.00023	0.00023	0.00024
	A0	-0.00016	-0.00016	-0.00016
	A0	0.00158	0.00163	0.00177
	A1	-0.00009	-0.00006	0.00010
	A1	0.00018	0.00018	0.00018
	A1	-0.00016	-0.00016	-0.00016
	A1	0.00142	0.00145	0.00159
	A2	-0.00016	-0.00005	0.00014
	A2	0.00006	0.00007	0.00021
	A2	-0.00016	-0.00016	-0.00016
	A2	0.00128	0.00132	0.00148
	B0	-0.00009	-0.00002	0.00036
	B0	0.00023	0.00023	0.00024
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00115	0.00123	0.00156
	B1	-0.00008	-0.00000	0.00044
	B1	0.00017	0.00018	0.00018
	B1	-0.00005	-0.00005	-0.00004
	B1	0.00099	0.00107	0.00143

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1H7R	**(A1 * A2 * B1 * !YN)**	-0.00011	-0.00010	-0.00009
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B1 * !YN)	0.00026	0.00026	0.00026
	(A1 * A2 * B0 * !B1 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00000
	(A1 * A2 * B0 * !B1 * !YN)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * YN)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00026	0.00026	0.00026
	(A1 * !A2 * B1 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * B1 * !YN)	0.00026	0.00026	0.00026
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00026	0.00026	0.00026
	(!A1 * A2 * B1 * !YN)	-0.00010	-0.00009	-0.00008
	(!A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(!A1 * A2 * B1 * !YN)	0.00026	0.00026	0.00026
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00011	-0.00009	-0.00008
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00010	-0.00009	-0.00008
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00026	0.00026	0.00026
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00012
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1H7R	**(A1 * A2 * B1 * !YN)**	0.00011	0.00011	0.00011
	(A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B1 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * A2 * B0 * !B1 * !YN)	0.00011	0.00011	0.00011
	(A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * YN)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00026	-0.00026	-0.00026
	(A1 * !A2 * B1 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * !A2 * B0 * !B1 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * B1 * !YN)	0.00010	0.00011	0.00010
	(!A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !YN)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * B0 * !B1 * !YN)	0.00010	0.00011	0.00011
	(!A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * !B0 * !B1 * YN)	0.00010	0.00010	0.00010
	(!A1 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00026	-0.00026	-0.00026
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00024	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1H7R	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B1 * !YN)	0.00022	0.00022	0.00022
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !YN)	0.00022	0.00022	0.00022
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B1 * !YN)	0.00022	0.00022	0.00022
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * !B1 * !YN)	0.00022	0.00022	0.00022
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00011	-0.00010	-0.00009
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022
	(!A0 * A2 * B1 * !YN)	-0.00011	-0.00010	-0.00009
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	0.00022	0.00022	0.00023
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00011	-0.00010	-0.00009
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00022	0.00022	0.00023
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00011	-0.00010	-0.00009
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1H7R	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00001	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A2 * B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * B1 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A2 * !B0 * !B1 * YN)	0.00011	0.00011	0.00011
	(A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00022	-0.00022	-0.00021
	(!A0 * A2 * B1 * !YN)	0.00011	0.00012	0.00012
	(!A0 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !YN)	-0.00022	-0.00022	-0.00021
	(!A0 * A2 * B0 * !B1 * !YN)	0.00011	0.00012	0.00012
	(!A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00022	-0.00022	-0.00021
	(!A0 * A2 * !B0 * !B1 * YN)	0.00011	0.00011	0.00011
	(!A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00001	-0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00022	-0.00022	-0.00021
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00013	0.00014	0.00014
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00019	-0.00017	-0.00015

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7R	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * B1 * !YN)	0.00026	0.00027	0.00027
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * !YN)	0.00027	0.00027	0.00027
	(A1 * !B0 * !B1 * YN)	-0.00014	-0.00013	-0.00011
	(A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00020	0.00020	0.00021
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00014	-0.00012	-0.00010
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00018	0.00018	0.00018

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7R	(A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !YN)	-0.00027	-0.00027	-0.00026
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * YN)	0.00014	0.00014	0.00014
	(A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !YN)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * !B0 * !B1 * YN)	0.00013	0.00014	0.00014
	(A0 * !A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00016	0.00016	0.00017
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7R	(A2 * B1 * !YN)	-0.00011	-0.00010	-0.00009
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * !YN)	0.00028	0.00028	0.00029
	(A1 * !A2 * B1 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00028	0.00028	0.00029
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00028	0.00028	0.00029
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00019	-0.00019	-0.00018
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7R	(A2 * B1 * !YN)	0.00011	0.00011	0.00011
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00028	-0.00028	-0.00028
	(A1 * !A2 * B1 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * !A2 * B1 * !YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * !A2 * B1 * YN)	0.00019	0.00019	0.00020
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7R	(A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !YN)	-0.00003	-0.00003	-0.00002
	(A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * !YN)	0.00030	0.00030	0.00030
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !YN)	0.00030	0.00030	0.00030
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00024	-0.00023	-0.00023
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1H7R	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00003	0.00003	0.00003
	(A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !YN)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !YN)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * !A2 * B0 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !A2 * B0 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00023	0.00023	0.00024
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00004

OAI32X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X1P4H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X1P4H7R	0.00075	0.00080	0.00087	0.00081	0.00090	0.02127

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X1P4H7R	0.00000	0.17575	0.42730

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X1P4H7R	A0->YN (FR)	0.05484	0.19919	0.61047
	A1->YN (FR)	0.05330	0.20523	0.64779
	A2->YN (FR)	0.04795	0.20018	0.64770
	B0->YN (FR)	0.02639	0.13716	0.48944
	B1->YN (FR)	0.02417	0.13675	0.50632

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X1P4H7R	A0->YN (RF)	0.02864	0.11518	0.39677
	A1->YN (RF)	0.02738	0.11241	0.39346
	A2->YN (RF)	0.02523	0.10872	0.38979
	B0->YN (RF)	0.02301	0.10708	0.39593
	B1->YN (RF)	0.02101	0.10366	0.39299

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X1P4H7R	A0	0.00181	0.00184	0.00201
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00019	0.00020	0.00020
	A0	-0.00008	-0.00005	0.00012
	A1	0.00161	0.00167	0.00186
	A1	-0.00015	-0.00014	-0.00014
	A1	0.00019	0.00020	0.00020
	A1	-0.00003	0.00001	0.00021
	A2	0.00142	0.00150	0.00183
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00018	0.00019	0.00020
	A2	-0.00003	0.00004	0.00037
	B0	0.00135	0.00142	0.00174
	B0	-0.00014	-0.00014	-0.00014
	B0	0.00005	0.00006	0.00006
	B0	-0.00014	-0.00007	0.00030
	B1	0.00117	0.00126	0.00173
	B1	-0.00008	-0.00007	-0.00002
	B1	0.00005	0.00006	0.00006
	B1	-0.00010	0.00000	0.00052

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X1P4H7R	A0	-0.00010	-0.00007	0.00011
	A0	0.00027	0.00027	0.00027
	A0	-0.00019	-0.00019	-0.00018
	A0	0.00174	0.00179	0.00195
	A1	-0.00010	-0.00006	0.00012
	A1	0.00021	0.00021	0.00021
	A1	-0.00019	-0.00019	-0.00018
	A1	0.00154	0.00160	0.00175
	A2	-0.00011	-0.00005	0.00017
	A2	0.00014	0.00014	0.00014
	A2	-0.00019	-0.00018	-0.00018
	A2	0.00139	0.00143	0.00163
	B0	-0.00010	-0.00003	0.00041
	B0	0.00027	0.00027	0.00027
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00127	0.00137	0.00174
	B1	-0.00010	-0.00000	0.00050
	B1	0.00019	0.00020	0.00020
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00110	0.00119	0.00160

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1P4H7R	**(A1 * A2 * B1 * !YN)**	-0.00012	-0.00011	-0.00010
	(A1 * A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B1 * !YN)	0.00027	0.00027	0.00027
	(A1 * A2 * B0 * !B1 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00027	0.00027	0.00027
	(A1 * !B0 * !B1 * YN)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * B1 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00027	0.00027	0.00027
	(!A1 * A2 * B1 * !YN)	-0.00012	-0.00011	-0.00009
	(!A1 * A2 * B1 * !YN)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B1 * !YN)	0.00027	0.00027	0.00027
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00012	-0.00011	-0.00009
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00027	0.00027	0.00027
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00012	-0.00011	-0.00009
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00027	0.00027	0.00027
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00025	0.00025	0.00025

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1P4H7R	**(A1 * A2 * B1 * !YN)**	0.00012	0.00012	0.00012
	(A1 * A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A1 * A2 * B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * A2 * B0 * !B1 * !YN)	0.00012	0.00012	0.00012
	(A1 * A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * YN)	0.00012	0.00012	0.00012
	(A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B1 * !YN)	0.00012	0.00013	0.00013
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B0 * !B1 * !YN)	0.00012	0.00013	0.00013
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * B1 * !YN)	0.00012	0.00012	0.00012
	(!A1 * A2 * B1 * !YN)	0.00001	0.00002	0.00002
	(!A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B1 * !YN)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * B0 * !B1 * !YN)	0.00012	0.00012	0.00012
	(!A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00002	0.00002
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * !B0 * !B1 * YN)	0.00012	0.00012	0.00012
	(!A1 * A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00027	-0.00027	-0.00027
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00014	0.00015	0.00015
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00025	-0.00024	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1P4H7R	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00007	-0.00006	-0.00006
	(A0 * A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(A0 * A2 * B1 * !YN)	0.00023	0.00024	0.00024
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00007	-0.00006	-0.00006
	(A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !YN)	0.00023	0.00024	0.00024
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * YN)	0.00023	0.00023	0.00023
	(A0 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B1 * !YN)	0.00023	0.00023	0.00023
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * !B1 * !YN)	0.00023	0.00023	0.00023
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00013	-0.00012	-0.00010
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00023	0.00023	0.00023
	(!A0 * A2 * B1 * !YN)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * B1 * !YN)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	0.00023	0.00024	0.00025
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00023	0.00024	0.00025
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00020	0.00021	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X1P4H7R	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00006	0.00006	0.00007
	(A0 * A2 * B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00006	0.00006	0.00007
	(A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00007	0.00007	0.00007
	(A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B1 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * !B0 * !B1 * YN)	0.00012	0.00013	0.00013
	(A0 * !A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B1 * !YN)	0.00013	0.00013	0.00013
	(!A0 * A2 * B1 * !YN)	0.00001	0.00001	0.00002
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B1 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B0 * !B1 * !YN)	0.00013	0.00013	0.00013
	(!A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00002
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B0 * !B1 * YN)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00015	0.00015	0.00016
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00020	-0.00019	-0.00016

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7R	(A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * B1 * !YN)	0.00028	0.00029	0.00029
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * !YN)	0.00028	0.00029	0.00029
	(A1 * !B0 * !B1 * YN)	-0.00015	-0.00014	-0.00013
	(A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !YN)	0.00028	0.00029	0.00029
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	0.00029	0.00029	0.00029
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00015	-0.00013	-0.00011
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00003	-0.00002	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00018	-0.00018	-0.00018
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00019	0.00020	0.00020

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7R	(A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !YN)	-0.00029	-0.00029	-0.00028
	(A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00028
	(A1 * !B0 * !B1 * YN)	0.00015	0.00015	0.00016
	(A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00000	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !YN)	-0.00029	-0.00028	-0.00028
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * !B0 * !B1 * YN)	0.00015	0.00015	0.00015
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00003
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7R	(A2 * B1 * !YN)	-0.00012	-0.00011	-0.00010
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * !YN)	0.00030	0.00030	0.00030
	(A1 * !A2 * B1 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00030	0.00030	0.00031
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00021	-0.00021	-0.00019
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00009	0.00009	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7R	(A2 * B1 * !YN)	0.00013	0.00013	0.00013
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * !YN)	-0.00030	-0.00030	-0.00029
	(A1 * !A2 * B1 * !YN)	0.00013	0.00013	0.00013
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00030	-0.00030	-0.00029
	(A0 * !A1 * !A2 * B1 * !YN)	0.00013	0.00013	0.00013
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00030	-0.00030	-0.00029
	(!A0 * !A1 * !A2 * B1 * YN)	0.00021	0.00021	0.00022
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7R	(A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !YN)	0.00032	0.00032	0.00032
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !YN)	0.00031	0.00032	0.00032
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	0.00031	0.00032	0.00032
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00024	-0.00023	-0.00021
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00026	-0.00026	-0.00025
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X1P4H7R	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00003	0.00003	0.00003
	(A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * !YN)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !YN)	-0.00032	-0.00032	-0.00031
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00032	-0.00032	-0.00031
	(!A0 * !A1 * !A2 * B0 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !A2 * B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00025	0.00026	0.00026
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00004

OAI32X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X2H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X2H7R	0.00082	0.00089	0.00098	0.00088	0.00100	0.02500

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X2H7R	0.00000	0.20820	0.50654

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X2H7R	A0->YN (FR)	0.05180	0.19698	0.61154
	A1->YN (FR)	0.05302	0.20482	0.64832
	A2->YN (FR)	0.04752	0.19946	0.64855
	B0->YN (FR)	0.02429	0.13550	0.48989
	B1->YN (FR)	0.02232	0.13505	0.50780

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X2H7R	A0->YN (RF)	0.02672	0.11180	0.39090
	A1->YN (RF)	0.02554	0.10902	0.38757
	A2->YN (RF)	0.02341	0.10531	0.38425
	B0->YN (RF)	0.02123	0.10389	0.38905
	B1->YN (RF)	0.01944	0.10060	0.38693

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X2H7R	A0	0.00206	0.00210	0.00230
	A0	-0.00025	-0.00024	-0.00024
	A0	0.00023	0.00024	0.00024
	A0	-0.00010	-0.00006	0.00013
	A1	0.00183	0.00189	0.00213
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00023	0.00024	0.00024
	A1	-0.00005	-0.00000	0.00023
	A2	0.00160	0.00169	0.00209
	A2	-0.00009	-0.00009	-0.00009
	A2	0.00023	0.00024	0.00024
	A2	-0.00006	0.00003	0.00042
	B0	0.00154	0.00161	0.00201
	B0	-0.00017	-0.00017	-0.00017
	B0	0.00007	0.00007	0.00007
	B0	-0.00016	-0.00008	0.00037
	B1	0.00132	0.00144	0.00200
	B1	-0.00009	-0.00009	-0.00008
	B1	0.00007	0.00007	0.00007
	B1	-0.00012	-0.00000	0.00062

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X2H7R	A0	-0.00012	-0.00008	0.00013
	A0	0.00032	0.00032	0.00033
	A0	-0.00023	-0.00022	-0.00022
	A0	0.00199	0.00204	0.00223
	A1	-0.00012	-0.00007	0.00014
	A1	0.00023	0.00025	0.00025
	A1	-0.00023	-0.00022	-0.00022
	A1	0.00177	0.00182	0.00201
	A2	-0.00012	-0.00006	0.00022
	A2	0.00017	0.00017	0.00017
	A2	-0.00023	-0.00022	-0.00022
	A2	0.00158	0.00163	0.00188
	B0	-0.00012	-0.00003	0.00050
	B0	0.00032	0.00032	0.00033
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00143	0.00155	0.00200
	B1	-0.00011	-0.00000	0.00061
	B1	0.00024	0.00024	0.00025
	B1	-0.00007	-0.00007	-0.00006
	B1	0.00123	0.00135	0.00185

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X2H7R	**(A1 * A2 * B1 * !YN)**	-0.00014	-0.00014	-0.00012
	(A1 * A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B1 * !YN)	0.00029	0.00029	0.00029
	(A1 * A2 * B0 * !B1 * !YN)	-0.00014	-0.00014	-0.00012
	(A1 * A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00029	0.00029	0.00029
	(A1 * !B0 * !B1 * YN)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * B1 * !YN)	-0.00015	-0.00014	-0.00012
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00015	-0.00014	-0.00012
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00029	0.00029	0.00029
	(!A1 * A2 * B1 * !YN)	-0.00014	-0.00013	-0.00010
	(!A1 * A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B1 * !YN)	0.00029	0.00029	0.00029
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00014	-0.00013	-0.00010
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00029	0.00029	0.00029
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00014	-0.00013	-0.00011
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00029	0.00029	0.00029
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00017	-0.00017	-0.00017
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00027	0.00027	0.00027

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X2H7R	**(A1 * A2 * B1 * !YN)**	0.00014	0.00014	0.00015
	(A1 * A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B1 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * A2 * B0 * !B1 * !YN)	0.00014	0.00014	0.00014
	(A1 * A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !B0 * !B1 * YN)	0.00014	0.00014	0.00015
	(A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B1 * !YN)	0.00015	0.00015	0.00015
	(A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B0 * !B1 * !YN)	0.00015	0.00015	0.00015
	(A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * B1 * !YN)	0.00014	0.00014	0.00014
	(!A1 * A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B1 * !YN)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * B0 * !B1 * !YN)	0.00014	0.00014	0.00014
	(!A1 * A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00029
	(!A1 * A2 * !B0 * !B1 * YN)	0.00014	0.00014	0.00014
	(!A1 * A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00029	-0.00029	-0.00029
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00017	0.00017	0.00017
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X2H7R	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B1 * !YN)	0.00026	0.00026	0.00026
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !YN)	0.00026	0.00026	0.00026
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * YN)	0.00025	0.00026	0.00026
	(A0 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B1 * !YN)	0.00026	0.00026	0.00026
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !B1 * !YN)	0.00026	0.00026	0.00026
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00015	-0.00014	-0.00012
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00025	0.00026	0.00026
	(!A0 * A2 * B1 * !YN)	-0.00016	-0.00014	-0.00012
	(!A0 * A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	0.00026	0.00026	0.00027
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00016	-0.00014	-0.00012
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00026	0.00026	0.00027
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00015	-0.00014	-0.00012
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00025	0.00026	0.00026
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00022	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X2H7R	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00008	0.00008	0.00008
	(A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B1 * !YN)	-0.00026	-0.00026	-0.00026
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00008	0.00008	0.00008
	(A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00026	-0.00026	-0.00026
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00008	0.00008	0.00008
	(A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00026	-0.00026	-0.00025
	(A0 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B1 * !YN)	-0.00026	-0.00026	-0.00025
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00026	-0.00026	-0.00025
	(A0 * !A2 * !B0 * !B1 * YN)	0.00015	0.00015	0.00015
	(A0 * !A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * B1 * !YN)	0.00016	0.00016	0.00016
	(!A0 * A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B1 * !YN)	-0.00026	-0.00026	-0.00025
	(!A0 * A2 * B0 * !B1 * !YN)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00026	-0.00025	-0.00025
	(!A0 * A2 * !B0 * !B1 * YN)	0.00015	0.00015	0.00015
	(!A0 * A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00025	-0.00025	-0.00025
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00018	0.00018	0.00019
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7R	(A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * B1 * !YN)	0.00032	0.00032	0.00033
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * !YN)	0.00032	0.00032	0.00033
	(A1 * !B0 * !B1 * YN)	-0.00018	-0.00016	-0.00014
	(A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00024	0.00025	0.00025
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !YN)	0.00032	0.00032	0.00033
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	0.00032	0.00032	0.00033
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00017	-0.00015	-0.00012
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00003	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00022	0.00022	0.00022

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7R	(A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !YN)	-0.00032	-0.00032	-0.00032
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * !YN)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * !B1 * YN)	0.00018	0.00018	0.00018
	(A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00025	-0.00025	-0.00024
	(A0 * !A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00003	0.00004	0.00004
	(A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00003	0.00004	0.00004
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * !B0 * !B1 * YN)	0.00017	0.00017	0.00017
	(A0 * !A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00003
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00025	-0.00025	-0.00024
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7R	(A2 * B1 * !YN)	-0.00015	-0.00013	-0.00012
	(A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * !YN)	0.00032	0.00032	0.00033
	(A1 * !A2 * B1 * !YN)	-0.00015	-0.00013	-0.00012
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00032	0.00032	0.00033
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00015	-0.00013	-0.00012
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00032	0.00032	0.00033
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00023	-0.00022	-0.00021
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00009	0.00010	0.00010

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7R	(A2 * B1 * !YN)	0.00015	0.00015	0.00015
	(A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * !YN)	-0.00032	-0.00032	-0.00031
	(A1 * !A2 * B1 * !YN)	0.00015	0.00015	0.00015
	(A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00032	-0.00032	-0.00031
	(A0 * !A1 * !A2 * B1 * !YN)	0.00015	0.00015	0.00015
	(A0 * !A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00032	-0.00032	-0.00031
	(!A0 * !A1 * !A2 * B1 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00009	-0.00009	-0.00009

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7R	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !YN)	0.00035	0.00035	0.00035
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !YN)	0.00035	0.00035	0.00035
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	0.00035	0.00035	0.00035
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00027	-0.00026	-0.00024
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00029	-0.00029	-0.00029
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X2H7R	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00004	0.00003	0.00004
	(A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * !YN)	-0.00035	-0.00035	-0.00035
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !YN)	-0.00035	-0.00035	-0.00035
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00035	-0.00035	-0.00035
	(!A0 * !A1 * !A2 * B0 * YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !A2 * B0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00029	0.00029	0.00029
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00004	-0.00004	-0.00004

OAI32X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X3H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X3H7R	0.00152	0.00158	0.00204	0.00156	0.00181	0.03866

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X3H7R	0.00000	0.32637	0.79711

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X3H7R	A0->YN (FR)	0.05513	0.19897	0.60969
	A1->YN (FR)	0.05242	0.20407	0.64649
	A2->YN (FR)	0.05323	0.20403	0.64933
	B0->YN (FR)	0.02653	0.13731	0.48882
	B1->YN (FR)	0.02496	0.13752	0.50765

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X3H7R	A0->YN (RF)	0.02851	0.11454	0.39489
	A1->YN (RF)	0.02690	0.11133	0.39147
	A2->YN (RF)	0.02630	0.10914	0.38876
	B0->YN (RF)	0.02294	0.10672	0.39480
	B1->YN (RF)	0.02125	0.10332	0.39144

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X3H7R	A0	0.00362	0.00369	0.00401
	A0	-0.00037	-0.00037	-0.00037
	A0	0.00036	0.00036	0.00036
	A0	-0.00007	0.00000	0.00031
	A1	0.00325	0.00333	0.00372
	A1	-0.00026	-0.00026	-0.00025
	A1	0.00036	0.00036	0.00036
	A1	0.00003	0.00011	0.00048
	A2	0.00301	0.00314	0.00374
	A2	-0.00013	-0.00013	-0.00013
	A2	0.00036	0.00036	0.00036
	A2	-0.00007	0.00007	0.00066
	B0	0.00281	0.00294	0.00355
	B0	-0.00026	-0.00026	-0.00025
	B0	0.00010	0.00010	0.00011
	B0	-0.00007	0.00006	0.00075
	B1	0.00252	0.00269	0.00356
	B1	-0.00014	-0.00014	-0.00013
	B1	0.00010	0.00010	0.00011
	B1	-0.00006	0.00014	0.00109

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X3H7R	A0	-0.00018	-0.00013	0.00021
	A0	0.00049	0.00049	0.00050
	A0	-0.00035	-0.00034	-0.00034
	A0	0.00344	0.00352	0.00381
	A1	-0.00018	-0.00011	0.00024
	A1	0.00037	0.00038	0.00040
	A1	-0.00036	-0.00034	-0.00032
	A1	0.00307	0.00313	0.00343
	A2	-0.00024	-0.00012	0.00029
	A2	0.00025	0.00026	0.00026
	A2	-0.00034	-0.00034	-0.00034
	A2	0.00290	0.00300	0.00335
	B0	-0.00019	-0.00004	0.00078
	B0	0.00049	0.00049	0.00050
	B0	-0.00010	-0.00010	-0.00009
	B0	0.00246	0.00266	0.00335
	B1	-0.00020	-0.00002	0.00091
	B1	0.00037	0.00037	0.00037
	B1	-0.00010	-0.00010	-0.00010
	B1	0.00224	0.00240	0.00316

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X3H7R	**(A1 * A2 * B1 * !YN)**	-0.00022	-0.00021	-0.00018
	(A1 * A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !YN)	0.00053	0.00053	0.00054
	(A1 * A2 * B0 * !B1 * !YN)	-0.00023	-0.00021	-0.00018
	(A1 * A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !YN)	0.00053	0.00053	0.00054
	(A1 * !B0 * !B1 * YN)	-0.00023	-0.00021	-0.00018
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00053	0.00053	0.00054
	(A1 * !A2 * B1 * !YN)	-0.00023	-0.00021	-0.00018
	(A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00053	0.00053	0.00053
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00023	-0.00021	-0.00018
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00053	0.00053	0.00054
	(!A1 * A2 * B1 * !YN)	-0.00022	-0.00020	-0.00016
	(!A1 * A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !YN)	0.00053	0.00053	0.00054
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00022	-0.00020	-0.00016
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	0.00053	0.00053	0.00054
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00022	-0.00020	-0.00016
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	0.00053	0.00053	0.00054
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00027	-0.00026	-0.00026
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	0.00000
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00049	0.00049	0.00049

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X3H7R	**(A1 * A2 * B1 * !YN)**	0.00022	0.00022	0.00023
	(A1 * A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !YN)	-0.00053	-0.00053	-0.00053
	(A1 * A2 * B0 * !B1 * !YN)	0.00022	0.00022	0.00023
	(A1 * A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !YN)	-0.00053	-0.00053	-0.00053
	(A1 * !B0 * !B1 * YN)	0.00022	0.00022	0.00023
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	-0.00053	-0.00053	-0.00053
	(A1 * !A2 * B1 * !YN)	0.00023	0.00023	0.00023
	(A1 * !A2 * B1 * !YN)	0.00002	0.00003	0.00003
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00053	-0.00053	-0.00053
	(A1 * !A2 * B0 * !B1 * !YN)	0.00023	0.00023	0.00023
	(A1 * !A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00053	-0.00053	-0.00053
	(!A1 * A2 * B1 * !YN)	0.00022	0.00022	0.00022
	(!A1 * A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !YN)	-0.00054	-0.00053	-0.00053
	(!A1 * A2 * B0 * !B1 * !YN)	0.00022	0.00022	0.00022
	(!A1 * A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00054	-0.00053	-0.00053
	(!A1 * A2 * !B0 * !B1 * YN)	0.00021	0.00022	0.00022
	(!A1 * A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00053	-0.00053	-0.00053
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00027	0.00028	0.00029
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00048	-0.00045	-0.00040

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X3H7R	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00012	-0.00012	-0.00012
	(A0 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B1 * !YN)	0.00044	0.00044	0.00044
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00012	-0.00012	-0.00012
	(A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !YN)	0.00043	0.00044	0.00044
	(A0 * A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * YN)	-0.00012	-0.00012	-0.00012
	(A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * YN)	0.00043	0.00043	0.00043
	(A0 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B1 * !YN)	0.00043	0.00043	0.00043
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !B1 * !YN)	0.00043	0.00043	0.00043
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00023	-0.00021	-0.00018
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	0.00042	0.00042	0.00043
	(!A0 * A2 * B1 * !YN)	-0.00024	-0.00022	-0.00018
	(!A0 * A2 * B1 * !YN)	-0.00003	-0.00002	-0.00002
	(!A0 * A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !YN)	0.00043	0.00044	0.00045
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00024	-0.00022	-0.00018
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00003	-0.00002	-0.00002
	(!A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	0.00043	0.00044	0.00046
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00024	-0.00022	-0.00019
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	0.00042	0.00043	0.00043
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00028	-0.00028	-0.00027
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00003
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00038	0.00038	0.00039

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X3H7R	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00012	0.00012	0.00012
	(A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B1 * !YN)	-0.00043	-0.00043	-0.00043
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00012	0.00012	0.00012
	(A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !B1 * !YN)	-0.00043	-0.00043	-0.00043
	(A0 * A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * YN)	0.00012	0.00012	0.00012
	(A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * YN)	-0.00043	-0.00043	-0.00043
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00009	0.00009	0.00009
	(A0 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B1 * !YN)	-0.00043	-0.00043	-0.00043
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00009	0.00009	0.00009
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00043	-0.00043	-0.00043
	(A0 * !A2 * !B0 * !B1 * YN)	0.00023	0.00023	0.00023
	(A0 * !A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00043	-0.00042	-0.00042
	(!A0 * A2 * B1 * !YN)	0.00024	0.00024	0.00025
	(!A0 * A2 * B1 * !YN)	0.00002	0.00002	0.00003
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !YN)	-0.00043	-0.00043	-0.00042
	(!A0 * A2 * B0 * !B1 * !YN)	0.00024	0.00024	0.00025
	(!A0 * A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00003
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00043	-0.00043	-0.00042
	(!A0 * A2 * !B0 * !B1 * YN)	0.00023	0.00023	0.00024
	(!A0 * A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00043	-0.00042	-0.00042
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00028	0.00028	0.00029
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00037	-0.00035	-0.00031

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7R	(A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * B1 * !YN)	0.00072	0.00072	0.00072
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !YN)	0.00072	0.00072	0.00073
	(A1 * !B0 * !B1 * YN)	-0.00042	-0.00040	-0.00036
	(A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * YN)	0.00045	0.00046	0.00046
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !YN)	0.00071	0.00072	0.00073
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	0.00071	0.00072	0.00072
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00041	-0.00037	-0.00032
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	0.00046	0.00046	0.00046
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00047	-0.00046	-0.00046
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00041	0.00042	0.00042

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7R	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00006	0.00006	0.00006
	(A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !YN)	-0.00072	-0.00072	-0.00072
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00006	0.00006	0.00006
	(A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !YN)	-0.00072	-0.00072	-0.00071
	(A1 * !B0 * !B1 * YN)	0.00041	0.00042	0.00042
	(A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * YN)	-0.00046	-0.00045	-0.00045
	(A0 * !A1 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !YN)	-0.00072	-0.00072	-0.00070
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00005	0.00006	0.00006
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00072	-0.00072	-0.00070
	(A0 * !A1 * !B0 * !B1 * YN)	0.00041	0.00041	0.00041
	(A0 * !A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00046	-0.00046	-0.00045
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00047	0.00047	0.00048
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00041	-0.00038	-0.00034

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7R	(A2 * B1 * !YN)	-0.00023	-0.00021	-0.00018
	(A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	0.00050	0.00051	0.00052
	(A1 * !A2 * B1 * !YN)	-0.00023	-0.00021	-0.00018
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00050	0.00051	0.00052
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00023	-0.00021	-0.00018
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00050	0.00051	0.00052
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00040	-0.00038	-0.00036
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !A2 * B1 * YN)	0.00013	0.00013	0.00013
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00043	-0.00042	-0.00042
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00013	0.00013	0.00013

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7R	(A2 * B1 * !YN)	0.00023	0.00023	0.00023
	(A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !YN)	-0.00051	-0.00050	-0.00050
	(A1 * !A2 * B1 * !YN)	0.00023	0.00023	0.00023
	(A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	-0.00050	-0.00050	-0.00050
	(A0 * !A1 * !A2 * B1 * !YN)	0.00023	0.00023	0.00023
	(A0 * !A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00051	-0.00050	-0.00050
	(!A0 * !A1 * !A2 * B1 * YN)	0.00039	0.00040	0.00040
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00042	0.00043	0.00043
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00013	-0.00013	-0.00013

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7R	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	-0.00006	-0.00006	-0.00005
	(A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !YN)	0.00062	0.00063	0.00063
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !YN)	0.00062	0.00063	0.00063
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	0.00062	0.00063	0.00063
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00049	-0.00047	-0.00044
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * YN)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !A2 * B0 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00053	-0.00053	-0.00052
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00009	0.00009	0.00009

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X3H7R	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00006	0.00006	0.00006
	(A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * !YN)	-0.00063	-0.00063	-0.00062
	(A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00006	0.00006	0.00006
	(A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !YN)	-0.00063	-0.00063	-0.00062
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00063	-0.00063	-0.00062
	(!A0 * !A1 * !A2 * B0 * YN)	0.00049	0.00049	0.00049
	(!A0 * !A1 * !A2 * B0 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00053	0.00053	0.00054
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00009	-0.00009	-0.00009

OAI32X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI32 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT					OUTPUT
A0	A1	A2	B0	B1	YN
0	0	0	x	x	1
0	x	1	0	0	1
0	x	1	x	1	0
0	x	1	1	x	0
x	1	x	0	0	1
x	1	x	x	1	0
x	1	x	1	x	0
1	x	x	0	0	1
1	x	x	x	1	0
1	x	x	1	x	0

Footprint

Cell Name	Area
OAI32X4H7R	8.12000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	A0	A1	A2	B0	B1	YN
OAI32X4H7R	0.00249	0.00243	0.00256	0.00260	0.00294	0.05384

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI32X4H7R	0.00000	0.46986	1.15766

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X4H7R	A0->YN (FR)	0.06086	0.20428	0.60778
	A1->YN (FR)	0.06103	0.21022	0.64419
	A2->YN (FR)	0.04969	0.20053	0.64303
	B0->YN (FR)	0.02697	0.13583	0.48056
	B1->YN (FR)	0.02378	0.13445	0.49953

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI32X4H7R	A0->YN (RF)	0.03177	0.11851	0.39527
	A1->YN (RF)	0.02992	0.11464	0.39094
	A2->YN (RF)	0.02696	0.10965	0.38682
	B0->YN (RF)	0.02420	0.10896	0.39555
	B1->YN (RF)	0.02112	0.10402	0.39016

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X4H7R	A0	0.00631	0.00640	0.00678
	A0	-0.00050	-0.00050	-0.00049
	A0	0.00050	0.00050	0.00050
	A0	0.00014	0.00023	0.00061
	A1	0.00552	0.00565	0.00617
	A1	-0.00039	-0.00036	-0.00029
	A1	0.00050	0.00050	0.00050
	A1	0.00014	0.00025	0.00076
	A2	0.00469	0.00488	0.00582
	A2	-0.00018	-0.00018	-0.00017
	A2	0.00050	0.00050	0.00051
	A2	-0.00003	0.00017	0.00110
	B0	0.00477	0.00497	0.00587
	B0	-0.00035	-0.00034	-0.00034
	B0	0.00014	0.00015	0.00022
	B0	-0.00003	0.00017	0.00106
	B1	0.00413	0.00441	0.00576
	B1	-0.00018	-0.00018	-0.00017
	B1	0.00013	0.00014	0.00016
	B1	-0.00007	0.00023	0.00154

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI32X4H7R	A0	-0.00024	-0.00015	0.00027
	A0	0.00065	0.00066	0.00068
	A0	-0.00048	-0.00047	-0.00047
	A0	0.00562	0.00574	0.00612
	A1	-0.00025	-0.00012	0.00030
	A1	0.00045	0.00051	0.00057
	A1	-0.00048	-0.00047	-0.00047
	A1	0.00506	0.00515	0.00554
	A2	-0.00016	0.00000	0.00058
	A2	0.00034	0.00034	0.00035
	A2	-0.00048	-0.00047	-0.00047
	A2	0.00455	0.00468	0.00519
	B0	-0.00016	0.00005	0.00120
	B0	0.00066	0.00066	0.00067
	B0	-0.00014	-0.00014	0.00000
	B0	0.00410	0.00436	0.00536
	B1	-0.00025	0.00001	0.00136
	B1	0.00049	0.00050	0.00050
	B1	-0.00014	-0.00014	-0.00007
	B1	0.00356	0.00382	0.00493

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X4H7R	**(A1 * A2 * B1 * !YN)**	-0.00041	-0.00036	-0.00029
	(A1 * A2 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * A2 * B1 * !YN)	0.00001	0.00002	0.00002
	(A1 * A2 * B1 * !YN)	0.00084	0.00085	0.00086
	(A1 * A2 * B0 * !B1 * !YN)	-0.00040	-0.00036	-0.00029
	(A1 * A2 * B0 * !B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00002
	(A1 * A2 * B0 * !B1 * !YN)	0.00084	0.00085	0.00085
	(A1 * !B0 * !B1 * YN)	-0.00041	-0.00037	-0.00030
	(A1 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * YN)	0.00084	0.00084	0.00086
	(A1 * !A2 * B1 * !YN)	-0.00042	-0.00036	-0.00029
	(A1 * !A2 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00002
	(A1 * !A2 * B1 * !YN)	0.00084	0.00085	0.00086
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00042	-0.00036	-0.00029
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	0.00084	0.00085	0.00087
	(!A1 * A2 * B1 * !YN)	-0.00040	-0.00034	-0.00025
	(!A1 * A2 * B1 * !YN)	-0.00005	-0.00005	-0.00003
	(!A1 * A2 * B1 * !YN)	0.00001	0.00001	0.00002
	(!A1 * A2 * B1 * !YN)	0.00084	0.00086	0.00087
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00039	-0.00034	-0.00025
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00005	-0.00005	-0.00003
	(!A1 * A2 * B0 * !B1 * !YN)	0.00001	0.00002	0.00002
	(!A1 * A2 * B0 * !B1 * !YN)	0.00084	0.00086	0.00088
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00039	-0.00034	-0.00027
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A1 * A2 * !B0 * !B1 * YN)	0.00084	0.00085	0.00086
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00054	-0.00053	-0.00053
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00003	0.00004	0.00004
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00073	0.00075	0.00075

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X4H7R	**(A1 * A2 * B1 * !YN)**	0.00040	0.00040	0.00041
	(A1 * A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A1 * A2 * B1 * !YN)	-0.00002	-0.00002	-0.00001
	(A1 * A2 * B1 * !YN)	-0.00084	-0.00084	-0.00083
	(A1 * A2 * B0 * !B1 * !YN)	0.00040	0.00040	0.00041
	(A1 * A2 * B0 * !B1 * !YN)	0.00005	0.00005	0.00005
	(A1 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !YN)	-0.00084	-0.00084	-0.00083
	(A1 * !B0 * !B1 * YN)	0.00041	0.00041	0.00041
	(A1 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	-0.00084	-0.00084	-0.00083
	(A1 * !A2 * B1 * !YN)	0.00042	0.00042	0.00043
	(A1 * !A2 * B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	-0.00084	-0.00084	-0.00083
	(A1 * !A2 * B0 * !B1 * !YN)	0.00042	0.00042	0.00043
	(A1 * !A2 * B0 * !B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00084	-0.00084	-0.00084
	(!A1 * A2 * B1 * !YN)	0.00039	0.00039	0.00040
	(!A1 * A2 * B1 * !YN)	0.00003	0.00005	0.00005
	(!A1 * A2 * B1 * !YN)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * B1 * !YN)	-0.00085	-0.00085	-0.00084
	(!A1 * A2 * B0 * !B1 * !YN)	0.00039	0.00039	0.00040
	(!A1 * A2 * B0 * !B1 * !YN)	0.00003	0.00005	0.00005
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !YN)	-0.00085	-0.00084	-0.00084
	(!A1 * A2 * !B0 * !B1 * YN)	0.00039	0.00039	0.00040
	(!A1 * A2 * !B0 * !B1 * YN)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * YN)	-0.00084	-0.00084	-0.00083
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00054	0.00055	0.00056
	(!A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00002	0.00003
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00003
	(!A1 * !A2 * !B0 * !B1 * YN)	-0.00074	-0.00069	-0.00062

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X4H7R	**(A0 * A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !YN)	-0.00016	-0.00016	-0.00016
	(A0 * A2 * B1 * !YN)	0.00001	0.00002	0.00002
	(A0 * A2 * B1 * !YN)	0.00085	0.00085	0.00086
	(A0 * A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !YN)	-0.00016	-0.00016	-0.00016
	(A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00002	0.00002
	(A0 * A2 * B0 * !B1 * !YN)	0.00084	0.00085	0.00086
	(A0 * A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * A2 * !B0 * !B1 * YN)	-0.00017	-0.00017	-0.00017
	(A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(A0 * A2 * !B0 * !B1 * YN)	0.00080	0.00081	0.00081
	(A0 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * !A2 * B1 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A2 * B1 * !YN)	0.00083	0.00084	0.00084
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !B1 * !YN)	0.00084	0.00084	0.00084
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00052	-0.00047	-0.00041
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(A0 * !A2 * !B0 * !B1 * YN)	0.00073	0.00074	0.00075
	(!A0 * A2 * B1 * !YN)	-0.00055	-0.00050	-0.00041
	(!A0 * A2 * B1 * !YN)	-0.00004	-0.00004	-0.00003
	(!A0 * A2 * B1 * !YN)	0.00001	0.00002	0.00002
	(!A0 * A2 * B1 * !YN)	0.00074	0.00077	0.00082
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00055	-0.00050	-0.00041
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00004	-0.00004	-0.00003
	(!A0 * A2 * B0 * !B1 * !YN)	0.00001	0.00002	0.00002
	(!A0 * A2 * B0 * !B1 * !YN)	0.00074	0.00076	0.00082
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00055	-0.00051	-0.00045
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * A2 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * A2 * !B0 * !B1 * YN)	0.00073	0.00074	0.00075
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00064	-0.00064	-0.00064
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00003	0.00004	0.00004
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00064	0.00065	0.00065

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI32X4H7R	**(A0 * A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !YN)	0.00016	0.00016	0.00016
	(A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B1 * !YN)	-0.00085	-0.00085	-0.00084
	(A0 * A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !YN)	0.00016	0.00016	0.00016
	(A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !B1 * !YN)	-0.00085	-0.00084	-0.00083
	(A0 * A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(A0 * A2 * !B0 * !B1 * YN)	0.00017	0.00017	0.00017
	(A0 * A2 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * YN)	-0.00081	-0.00081	-0.00080
	(A0 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B1 * !YN)	-0.00084	-0.00084	-0.00083
	(A0 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !B1 * !YN)	-0.00084	-0.00084	-0.00084
	(A0 * !A2 * !B0 * !B1 * YN)	0.00052	0.00052	0.00052
	(A0 * !A2 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * !B0 * !B1 * YN)	-0.00074	-0.00073	-0.00073
	(!A0 * A2 * B1 * !YN)	0.00055	0.00055	0.00056
	(!A0 * A2 * B1 * !YN)	0.00003	0.00004	0.00004
	(!A0 * A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !YN)	-0.00074	-0.00074	-0.00073
	(!A0 * A2 * B0 * !B1 * !YN)	0.00055	0.00055	0.00056
	(!A0 * A2 * B0 * !B1 * !YN)	0.00003	0.00004	0.00004
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !YN)	-0.00074	-0.00074	-0.00073
	(!A0 * A2 * !B0 * !B1 * YN)	0.00055	0.00055	0.00055
	(!A0 * A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * YN)	-0.00073	-0.00073	-0.00072
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00064	0.00065	0.00066
	(!A0 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00003
	(!A0 * !A2 * !B0 * !B1 * YN)	-0.00063	-0.00059	-0.00051

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7R	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	-0.00007	-0.00007	-0.00007
	(A1 * B1 * !YN)	0.00001	0.00002	0.00002
	(A1 * B1 * !YN)	0.00104	0.00105	0.00106
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * !B1 * !YN)	0.00001	0.00002	0.00002
	(A1 * B0 * !B1 * !YN)	0.00105	0.00105	0.00106
	(A1 * !B0 * !B1 * YN)	-0.00054	-0.00050	-0.00042
	(A1 * !B0 * !B1 * YN)	-0.00005	-0.00004	-0.00004
	(A1 * !B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * YN)	0.00073	0.00074	0.00076
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * B1 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * B1 * !YN)	0.00105	0.00105	0.00106
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * B0 * !B1 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * !YN)	0.00104	0.00105	0.00106
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00052	-0.00046	-0.00038
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00006	-0.00004	-0.00002
	(A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !B1 * YN)	0.00073	0.00074	0.00075
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00064	-0.00064	-0.00063
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00064	0.00065	0.00065

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7R	(A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !YN)	0.00007	0.00007	0.00007
	(A1 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B1 * !YN)	-0.00105	-0.00105	-0.00104
	(A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !YN)	0.00007	0.00007	0.00007
	(A1 * B0 * !B1 * !YN)	-0.00002	-0.00001	-0.00001
	(A1 * B0 * !B1 * !YN)	-0.00106	-0.00105	-0.00104
	(A1 * !B0 * !B1 * YN)	0.00054	0.00054	0.00054
	(A1 * !B0 * !B1 * YN)	0.00004	0.00004	0.00005
	(A1 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !B1 * YN)	-0.00074	-0.00073	-0.00072
	(A0 * !A1 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !YN)	0.00007	0.00007	0.00007
	(A0 * !A1 * B1 * !YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B1 * !YN)	-0.00105	-0.00104	-0.00103
	(A0 * !A1 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !YN)	0.00007	0.00007	0.00007
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * B0 * !B1 * !YN)	-0.00105	-0.00104	-0.00104
	(A0 * !A1 * !B0 * !B1 * YN)	0.00052	0.00052	0.00052
	(A0 * !A1 * !B0 * !B1 * YN)	0.00002	0.00005	0.00006
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * YN)	-0.00073	-0.00073	-0.00072
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00064	0.00065	0.00066
	(!A0 * !A1 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !B1 * YN)	-0.00064	-0.00059	-0.00052

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7R	(A2 * B1 * !YN)	-0.00038	-0.00034	-0.00027
	(A2 * B1 * !YN)	-0.00004	-0.00004	-0.00003
	(A2 * B1 * !YN)	0.00001	0.00002	0.00002
	(A2 * B1 * !YN)	0.00084	0.00085	0.00089
	(A1 * !A2 * B1 * !YN)	-0.00038	-0.00034	-0.00027
	(A1 * !A2 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B1 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * B1 * !YN)	0.00084	0.00085	0.00089
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00038	-0.00034	-0.00027
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00004	-0.00004	-0.00003
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00084	0.00085	0.00089
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00063	-0.00059	-0.00054
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B1 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * B1 * YN)	0.00026	0.00027	0.00028
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00071	-0.00070	-0.00069
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00025	0.00026	0.00026

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7R	(A2 * B1 * !YN)	0.00039	0.00039	0.00039
	(A2 * B1 * !YN)	0.00003	0.00004	0.00004
	(A2 * B1 * !YN)	-0.00002	-0.00001	-0.00001
	(A2 * B1 * !YN)	-0.00084	-0.00083	-0.00083
	(A1 * !A2 * B1 * !YN)	0.00038	0.00039	0.00039
	(A1 * !A2 * B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00084	-0.00084	-0.00083
	(A0 * !A1 * !A2 * B1 * !YN)	0.00038	0.00039	0.00039
	(A0 * !A1 * !A2 * B1 * !YN)	0.00003	0.00004	0.00004
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00084	-0.00083	-0.00083
	(!A0 * !A1 * !A2 * B1 * YN)	0.00062	0.00063	0.00063
	(!A0 * !A1 * !A2 * B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00007	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00070	0.00071	0.00072
	(!A0 * !A1 * !A2 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !A2 * !B1 * YN)	-0.00026	-0.00025	-0.00025

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7R	(A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	-0.00008	-0.00008	-0.00008
	(A2 * B0 * !YN)	0.00001	0.00002	0.00002
	(A2 * B0 * !YN)	0.00105	0.00106	0.00107
	(A1 * !A2 * B0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	-0.00008	-0.00008	-0.00008
	(A1 * !A2 * B0 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * B0 * !YN)	0.00106	0.00106	0.00106
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * !A2 * B0 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !YN)	0.00105	0.00106	0.00107
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00084	-0.00079	-0.00074
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00006	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * B0 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * B0 * YN)	0.00018	0.00018	0.00019
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00097	-0.00095	-0.00094
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00016	0.00017	0.00017

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAI32X4H7R	(A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !YN)	0.00009	0.00009	0.00009
	(A2 * B0 * !YN)	-0.00002	-0.00001	-0.00001
	(A2 * B0 * !YN)	-0.00106	-0.00106	-0.00105
	(A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * !YN)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * B0 * !YN)	-0.00106	-0.00106	-0.00105
	(A0 * !A1 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !YN)	0.00009	0.00009	0.00009
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !A2 * B0 * !YN)	-0.00107	-0.00106	-0.00105
	(!A0 * !A1 * !A2 * B0 * YN)	0.00084	0.00084	0.00084
	(!A0 * !A1 * !A2 * B0 * YN)	0.00005	0.00005	0.00006
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B0 * YN)	-0.00018	-0.00017	-0.00017
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00095	0.00096	0.00097
	(!A0 * !A1 * !A2 * !B0 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !A2 * !B0 * YN)	-0.00016	-0.00016	-0.00016

OAI33X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X0P5H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	**A1**	**A2**	**B0**	**B1**	**B2**	**YN**
OAI33X0P5H7R	0.00069	0.00072	0.00080	0.00081	0.00082	0.00086	0.01853

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
OAI33X0P5H7R	0.00000	0.13504	0.53805

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X0P5H7R	A0->YN (FR)	0.06763	0.20795	0.60495
	A1->YN (FR)	0.06568	0.21406	0.64351
	A2->YN (FR)	0.06093	0.20964	0.64358
	B0->YN (FR)	0.05049	0.18769	0.58532
	B1->YN (FR)	0.04791	0.19257	0.62370
	B2->YN (FR)	0.04241	0.18745	0.62457

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X0P5H7R	A0->YN (RF)	0.03744	0.12909	0.41448
	A1->YN (RF)	0.03565	0.12612	0.41241
	A2->YN (RF)	0.03328	0.12266	0.40892
	B0->YN (RF)	0.03148	0.12079	0.41624
	B1->YN (RF)	0.02936	0.11725	0.41161
	B2->YN (RF)	0.02677	0.11336	0.40779

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X0P5H7R	A0	0.00208	0.00211	0.00224
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00021	0.00022	0.00022
	A0	0.00000	0.00003	0.00017
	A1	0.00192	0.00195	0.00212
	A1	-0.00013	-0.00013	-0.00012
	A1	0.00021	0.00022	0.00022
	A1	0.00006	0.00010	0.00026
	A2	0.00175	0.00180	0.00208
	A2	-0.00007	-0.00006	-0.00006
	A2	0.00021	0.00021	0.00022
	A2	0.00006	0.00012	0.00039
	B0	0.00167	0.00172	0.00189
	B0	-0.00018	-0.00018	-0.00018
	B0	0.00007	0.00007	0.00008
	B0	0.00002	0.00007	0.00026
	B1	0.00150	0.00155	0.00175
	B1	-0.00013	-0.00013	-0.00012
	B1	0.00007	0.00007	0.00008
	B1	0.00006	0.00011	0.00033
	B2	0.00132	0.00139	0.00171
	B2	-0.00007	-0.00006	-0.00005
	B2	0.00007	0.00007	0.00008
	B2	0.00006	0.00013	0.00047

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X0P5H7R	A0	-0.00009	-0.00007	0.00008
	A0	0.00030	0.00030	0.00030
	A0	-0.00020	-0.00020	-0.00019
	A0	0.00192	0.00197	0.00209
	A1	-0.00009	-0.00006	0.00008
	A1	0.00024	0.00024	0.00024
	A1	-0.00020	-0.00020	-0.00019
	A1	0.00175	0.00178	0.00190
	A2	-0.00009	-0.00005	0.00012
	A2	0.00018	0.00018	0.00018
	A2	-0.00020	-0.00020	-0.00019
	A2	0.00162	0.00165	0.00178
	B0	-0.00010	-0.00004	0.00027
	B0	0.00030	0.00030	0.00030
	B0	-0.00007	-0.00007	-0.00006
	B0	0.00144	0.00150	0.00176
	B1	-0.00009	-0.00003	0.00028
	B1	0.00024	0.00024	0.00024
	B1	-0.00007	-0.00007	-0.00006
	B1	0.00125	0.00133	0.00159
	B2	-0.00008	-0.00001	0.00034
	B2	0.00006	0.00007	0.00028
	B2	-0.00007	-0.00007	-0.00005
	B2	0.00113	0.00119	0.00148

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7R	**(A1 * A2 * B2 * !YN)**	-0.00011	-0.00010	-0.00009
	(A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B2 * !YN)	0.00025	0.00026	0.00026
	(A1 * A2 * B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * A2 * B1 * !B2 * !YN)	0.00025	0.00026	0.00026
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00026
	(A1 * !A2 * B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * B2 * !YN)	0.00025	0.00025	0.00026
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00025	0.00025	0.00026
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00025	0.00025	0.00026
	(!A1 * A2 * B2 * !YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B2 * !YN)	0.00025	0.00026	0.00026
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00025	0.00025	0.00026
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00025	0.00025	0.00026
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00011	-0.00010	-0.00008
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00025	0.00026	0.00026
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00013	-0.00013
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00023	0.00023	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7R	**(A1 * A2 * B2 * !YN)**	0.00011	0.00011	0.00011
	(A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * A2 * B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !B1 * !B2 * YN)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00025	-0.00025
	(A1 * !A2 * B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * !A2 * B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00026	-0.00025	-0.00025
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(!A1 * A2 * B2 * !YN)	0.00011	0.00011	0.00011
	(!A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(!A1 * A2 * B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(!A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00026	-0.00025	-0.00025
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00026	-0.00025	-0.00025
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00011	0.00011	0.00011
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00026	-0.00025	-0.00025
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00013	0.00013	0.00014
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00023	-0.00022	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7R	**(A0 * A2 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B2 * !YN)	0.00021	0.00021	0.00021
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B1 * !B2 * !YN)	0.00020	0.00021	0.00021
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00021	0.00021	0.00021
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00020	0.00020	0.00020
	(A0 * !A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00020	0.00020	0.00021
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B1 * !B2 * !YN)	0.00020	0.00020	0.00020
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00020	0.00020	0.00021
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00011	-0.00009
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00020	0.00020	0.00020
	(!A0 * A2 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B2 * !YN)	0.00020	0.00021	0.00022
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	0.00020	0.00021	0.00022
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00020	0.00021	0.00022
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00011	-0.00010
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00020	0.00020	0.00020
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00018	0.00018	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7R	**(A0 * A2 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B2 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00006	0.00006	0.00006
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00012	0.00012	0.00012
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * B2 * !YN)	0.00012	0.00012	0.00012
	(!A0 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B2 * !YN)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(!A0 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00020	-0.00020	-0.00020
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00012	0.00012	0.00012
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00014	0.00014	0.00015
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00018	-0.00016	-0.00014

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7R	**(A1 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00026	0.00026	0.00027
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * !B2 * !YN)	0.00000	0.00001	0.00000
	(A1 * B1 * !B2 * !YN)	0.00026	0.00026	0.00027
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * !B2 * !YN)	0.00026	0.00026	0.00027
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00012	-0.00011
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00020	0.00021	0.00021
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B2 * !YN)	0.00026	0.00026	0.00027
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00001	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00026	0.00026	0.00027
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00026	0.00026	0.00027
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00011	-0.00009
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00018	0.00018	0.00019

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7R	**(A1 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B2 * !YN)	-0.00027	-0.00026	-0.00026
	(A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !B2 * !YN)	-0.00027	-0.00026	-0.00026
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00026	-0.00026
	(A1 * !B0 * !B1 * !B2 * YN)	0.00013	0.00013	0.00013
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00021	-0.00021	-0.00020
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00013	0.00013	0.00013
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00018	-0.00016	-0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7R	**(A2 * B1 * B2 * !YN)**	-0.00011	-0.00010	-0.00009
	(A2 * B1 * B2 * !YN)	-0.00002	-0.00002	-0.00001
	(A2 * B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * B2 * !YN)	0.00027	0.00027	0.00027
	(A2 * B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A2 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A2 * !B1 * B2 * !YN)	-0.00011	-0.00010	-0.00008
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * B1 * B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * !A2 * B1 * B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00011	-0.00010	-0.00008
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00011	-0.00010	-0.00008
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00021	-0.00020	-0.00018
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00023	-0.00023	-0.00022
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00006	0.00006	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7R	**(A2 * B1 * B2 * !YN)**	0.00011	0.00011	0.00011
	(A2 * B1 * B2 * !YN)	0.00001	0.00002	0.00002
	(A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A2 * B1 * !B2 * !YN)	0.00011	0.00012	0.00012
	(A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A2 * !B1 * B2 * !YN)	0.00011	0.00011	0.00011
	(A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * !B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B1 * B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B1 * !B2 * !YN)	0.00011	0.00012	0.00012
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * !B1 * B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00002	0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00011	0.00012	0.00012
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7R	**(A2 * B0 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B0 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A2 * B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * B2 * !YN)	0.00024	0.00024	0.00024
	(A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A2 * B0 * !B2 * !YN)	0.00023	0.00023	0.00024
	(A2 * !B0 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00001
	(A2 * !B0 * B2 * !YN)	0.00023	0.00024	0.00025
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * B2 * !YN)	0.00024	0.00024	0.00024
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	0.00023	0.00023	0.00023
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00023	0.00024	0.00025
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00024	0.00024	0.00024
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00023	0.00023	0.00023
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00023	0.00024	0.00025
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00010	-0.00010	-0.00010
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7R	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00006	0.00006	0.00006
	(A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A2 * !B0 * B2 * !YN)	0.00012	0.00012	0.00012
	(A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * !B0 * B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00006	0.00006	0.00006
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A1 * !A2 * !B0 * B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00010	0.00010	0.00010
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7R	**(A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * !YN)	0.00029	0.00029	0.00029
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * !B1 * !YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00029	0.00029	0.00029
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00029	0.00029	0.00029
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00028	0.00029	0.00029
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00028	0.00029	0.00029
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00022	-0.00020	-0.00018
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00024	-0.00024	-0.00023
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P5H7R	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00029	-0.00029	-0.00029
	(A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	0.00002	0.00003	0.00003
	(A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00028
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00029	-0.00029	-0.00029
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00003	0.00003
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00029	-0.00029	-0.00028
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00003	0.00003
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00029	-0.00029	-0.00028
	(!A0 * !A1 * !A2 * B1 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00021	0.00021	0.00022
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003

OAI33X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X0P7H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	B0	B1	B2	YN
OAI33X0P7H7R	0.00064	0.00066	0.00074	0.00074	0.00075	0.00080	0.01499

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI33X0P7H7R	0.00000	0.11843	0.48419

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X0P7H7R	A0->YN (FR)	0.07626	0.21466	0.60417
	A1->YN (FR)	0.07440	0.22118	0.64333
	A2->YN (FR)	0.07010	0.21762	0.64510
	B0->YN (FR)	0.05658	0.19193	0.58288
	B1->YN (FR)	0.05436	0.19746	0.62160
	B2->YN (FR)	0.04888	0.19298	0.62307

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X0P7H7R	A0->YN (RF)	0.03781	0.12391	0.39363
	A1->YN (RF)	0.03620	0.12123	0.39107
	A2->YN (RF)	0.03424	0.11823	0.38741
	B0->YN (RF)	0.03163	0.11507	0.39094
	B1->YN (RF)	0.02974	0.11193	0.38804
	B2->YN (RF)	0.02749	0.10845	0.38492

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X0P7H7R	A0	0.00184	0.00187	0.00199
	A0	-0.00015	-0.00015	-0.00014
	A0	0.00019	0.00019	0.00019
	A0	0.00001	0.00004	0.00015
	A1	0.00170	0.00174	0.00188
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00019	0.00019	0.00019
	A1	0.00007	0.00010	0.00023
	A2	0.00157	0.00162	0.00185
	A2	-0.00005	-0.00005	-0.00005
	A2	0.00019	0.00019	0.00019
	A2	0.00006	0.00012	0.00034
	B0	0.00146	0.00150	0.00164
	B0	-0.00015	-0.00014	-0.00014
	B0	0.00006	0.00006	0.00007
	B0	0.00003	0.00007	0.00024
	B1	0.00132	0.00137	0.00153
	B1	-0.00010	-0.00010	-0.00007
	B1	0.00006	0.00006	0.00007
	B1	0.00007	0.00012	0.00029
	B2	0.00118	0.00124	0.00150
	B2	-0.00005	-0.00005	-0.00003
	B2	0.00006	0.00006	0.00007
	B2	0.00006	0.00013	0.00041

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X0P7H7R	A0	-0.00007	-0.00005	0.00007
	A0	0.00023	0.00024	0.00024
	A0	-0.00018	-0.00018	-0.00018
	A0	0.00172	0.00175	0.00185
	A1	-0.00007	-0.00005	0.00007
	A1	0.00019	0.00019	0.00019
	A1	-0.00018	-0.00018	-0.00017
	A1	0.00156	0.00159	0.00169
	A2	-0.00007	-0.00004	0.00010
	A2	0.00014	0.00015	0.00015
	A2	-0.00018	-0.00018	-0.00017
	A2	0.00146	0.00148	0.00159
	B0	-0.00008	-0.00003	0.00024
	B0	0.00023	0.00024	0.00024
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00124	0.00131	0.00153
	B1	-0.00007	-0.00002	0.00024
	B1	0.00018	0.00019	0.00019
	B1	-0.00006	-0.00006	-0.00005
	B1	0.00109	0.00116	0.00138
	B2	-0.00006	-0.00001	0.00029
	B2	0.00014	0.00015	0.00015
	B2	-0.00006	-0.00006	-0.00005
	B2	0.00098	0.00105	0.00130

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7R	**(A1 * A2 * B2 * !YN)**	-0.00009	-0.00008	-0.00007
	(A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B2 * !YN)	0.00025	0.00025	0.00025
	(A1 * A2 * B1 * !B2 * !YN)	-0.00009	-0.00008	-0.00007
	(A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * A2 * B1 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00009	-0.00008	-0.00007
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00024	0.00025	0.00025
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00009	-0.00008	-0.00007
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	0.00024	0.00025	0.00025
	(A1 * !A2 * B2 * !YN)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B2 * !YN)	0.00024	0.00025	0.00025
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00024	0.00025	0.00025
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00024	0.00025	0.00025
	(!A1 * A2 * B2 * !YN)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B2 * !YN)	0.00025	0.00025	0.00025
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00024	0.00025	0.00025
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00025	0.00025	0.00025
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00009	-0.00008	-0.00007
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00025
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00011	-0.00011	-0.00011
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7R	**(A1 * A2 * B2 * !YN)**	0.00009	0.00009	0.00009
	(A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * A2 * B1 * !B2 * !YN)	0.00009	0.00009	0.00009
	(A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00024
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00009	0.00009	0.00009
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00024
	(A1 * !B0 * !B1 * !B2 * YN)	0.00009	0.00009	0.00009
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00025	-0.00024
	(A1 * !A2 * B2 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B2 * !YN)	-0.00025	-0.00025	-0.00024
	(A1 * !A2 * B1 * !B2 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00024
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00025	-0.00024	-0.00024
	(!A1 * A2 * B2 * !YN)	0.00009	0.00009	0.00009
	(!A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B2 * !YN)	-0.00025	-0.00025	-0.00024
	(!A1 * A2 * B1 * !B2 * !YN)	0.00009	0.00009	0.00009
	(!A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00024
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00009	0.00009	0.00009
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00009	0.00009	0.00009
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00025	-0.00024
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00011	0.00011	0.00011
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7R	**(A0 * A2 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B2 * !YN)	0.00020	0.00020	0.00020
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * A2 * B1 * !B2 * !YN)	0.00020	0.00020	0.00020
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00020	0.00020	0.00020
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00005	-0.00005	-0.00005
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00020	0.00020	0.00020
	(A0 * !A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A2 * B2 * !YN)	0.00020	0.00020	0.00020
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00020	0.00020	0.00020
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00020	0.00020	0.00020
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00010	-0.00009	-0.00008
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00019	0.00019	0.00020
	(!A0 * A2 * B2 * !YN)	-0.00010	-0.00009	-0.00007
	(!A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B2 * !YN)	0.00020	0.00020	0.00021
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00007
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	0.00020	0.00020	0.00021
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00007
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00020	0.00020	0.00021
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00010	-0.00009	-0.00008
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00019	0.00019	0.00020
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00011	-0.00011	-0.00011
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00017	0.00017	0.00018

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7R	**(A0 * A2 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B2 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00020	-0.00020	-0.00019
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00005	0.00005	0.00005
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00020	-0.00019
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00003	0.00003	0.00004
	(A0 * !A2 * B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * B2 * !YN)	-0.00020	-0.00020	-0.00019
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00003	0.00003	0.00004
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00004
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00020	-0.00020	-0.00020
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00009	0.00010	0.00010
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00019	-0.00019
	(!A0 * A2 * B2 * !YN)	0.00010	0.00010	0.00010
	(!A0 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B2 * !YN)	-0.00020	-0.00019	-0.00019
	(!A0 * A2 * B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(!A0 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00020	-0.00019	-0.00019
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00020	-0.00019	-0.00019
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00010	0.00010	0.00010
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00019	-0.00019
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00012	0.00012	0.00012
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00017	-0.00016	-0.00013

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7R	**(A1 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00025	0.00025	0.00025
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00020	0.00020	0.00020
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00011	-0.00009	-0.00008
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00017	0.00018	0.00018

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7R	**(A1 * B2 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A1 * !B0 * !B1 * !B2 * YN)	0.00011	0.00011	0.00011
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00020	-0.00020
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00013	0.00013	0.00014
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00017	-0.00016	-0.00013

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

	(A2 * B1 * B2 * !YN)	-0.00009	-0.00008	-0.00007
	(A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B1 * B2 * !YN)	0.00026	0.00026	0.00026
	(A2 * B1 * !B2 * !YN)	-0.00009	-0.00008	-0.00007
	(A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A2 * B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(A2 * !B1 * B2 * !YN)	-0.00009	-0.00008	-0.00007
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00001
	(A2 * !B1 * B2 * !YN)	0.00026	0.00026	0.00026
	(A1 * !A2 * B1 * B2 * !YN)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * B2 * !YN)	0.00026	0.00026	0.00026
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00009	-0.00008	-0.00007
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	0.00026	0.00026	0.00026
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
OAI33X0P7H7R	**(A0 * !A1 * !A2 * B1 * B2 * !YN)**	0.00000	0.00000	0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00026	0.00026	0.00026
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00009	-0.00008	-0.00007
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00009	-0.00008	-0.00006
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00018	-0.00017	-0.00016
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00006	0.00006	0.00007
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00020	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00006	0.00006	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

	(A2 * B1 * B2 * !YN)	0.00009	0.00009	0.00009
	(A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A2 * B1 * !B2 * !YN)	0.00009	0.00009	0.00009
	(A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A2 * !B1 * B2 * !YN)	0.00009	0.00009	0.00009
	(A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * !B1 * B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * !A2 * B1 * B2 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * !A2 * B1 * !B2 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * !A2 * !B1 * B2 * !YN)	0.00009	0.00009	0.00009
	(A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00009	0.00009	0.00009
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
OAI33X0P7H7R	**(A0 * !A1 * !A2 * B1 * B2 * !YN)**	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00009	0.00009	0.00009
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00009	0.00009	0.00009
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00026	-0.00026	-0.00026
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00018	0.00019	0.00019
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7R	**(A2 * B0 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B0 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00022	0.00022	0.00022
	(A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00022	0.00022	0.00022
	(A2 * !B0 * B2 * !YN)	-0.00010	-0.00009	-0.00007
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00001
	(A2 * !B0 * B2 * !YN)	0.00022	0.00022	0.00023
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00022	0.00022	0.00022
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00022	0.00022	0.00022
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00010	-0.00009	-0.00007
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00022	0.00022	0.00023
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00022	0.00022	0.00022
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00022	0.00022	0.00022
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00010	-0.00009	-0.00007
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00022	0.00022	0.00023
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00004	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00019	-0.00018	-0.00017
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00004	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00003	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7R	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00005	0.00005	0.00005
	(A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00022	-0.00022	-0.00022
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00003	0.00003	0.00004
	(A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !B2 * !YN)	-0.00022	-0.00022	-0.00022
	(A2 * !B0 * B2 * !YN)	0.00010	0.00010	0.00010
	(A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * !B0 * B2 * !YN)	-0.00022	-0.00022	-0.00022
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00005	0.00005	0.00005
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00022	-0.00022	-0.00022
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00003	0.00003	0.00004
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00022	-0.00022	-0.00022
	(A1 * !A2 * !B0 * B2 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00010	0.00010	0.00010
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00004	-0.00004	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7R	**(A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B1 * !YN)	0.00000	0.00000	0.00001
	(A2 * B1 * !YN)	0.00027	0.00027	0.00027
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00019	-0.00018	-0.00016
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00003	0.00004	0.00004

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X0P7H7R	**(A2 * B1 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * !B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !A2 * B1 * YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003

OAI33X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X1H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	B0	B1	B2	YN
OAI33X1H7R	0.00070	0.00073	0.00080	0.00078	0.00079	0.00080	0.01794

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI33X1H7R	0.00000	0.13797	0.55908

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X1H7R	A0->YN (FR)	0.07163	0.21101	0.60576
	A1->YN (FR)	0.06808	0.21623	0.64406
	A2->YN (FR)	0.06291	0.21168	0.64512
	B0->YN (FR)	0.05078	0.18789	0.58575
	B1->YN (FR)	0.04851	0.19301	0.62300
	B2->YN (FR)	0.04225	0.18735	0.62335

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X1H7R	A0->YN (RF)	0.03558	0.12282	0.39742
	A1->YN (RF)	0.03402	0.12012	0.39485
	A2->YN (RF)	0.03184	0.11675	0.39155
	B0->YN (RF)	0.02942	0.11399	0.39562
	B1->YN (RF)	0.02754	0.11075	0.39194
	B2->YN (RF)	0.02489	0.10682	0.38813

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X1H7R	A0	0.00206	0.00209	0.00222
	A0	-0.00018	-0.00018	-0.00017
	A0	0.00022	0.00023	0.00023
	A0	0.00001	0.00004	0.00017
	A1	0.00189	0.00194	0.00210
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00022	0.00022	0.00023
	A1	0.00006	0.00010	0.00026
	A2	0.00173	0.00179	0.00207
	A2	-0.00007	-0.00007	-0.00006
	A2	0.00022	0.00022	0.00023
	A2	0.00005	0.00011	0.00038
	B0	0.00163	0.00167	0.00185
	B0	-0.00018	-0.00017	-0.00017
	B0	0.00007	0.00008	0.00008
	B0	0.00002	0.00007	0.00027
	B1	0.00146	0.00151	0.00171
	B1	-0.00012	-0.00012	-0.00011
	B1	0.00007	0.00008	0.00008
	B1	0.00006	0.00011	0.00033
	B2	0.00128	0.00135	0.00166
	B2	-0.00006	-0.00006	0.00000
	B2	0.00007	0.00007	0.00008
	B2	0.00005	0.00012	0.00047

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X1H7R	A0	-0.00009	-0.00006	0.00008
	A0	0.00028	0.00029	0.00029
	A0	-0.00021	-0.00021	-0.00021
	A0	0.00191	0.00195	0.00207
	A1	-0.00008	-0.00005	0.00009
	A1	0.00023	0.00023	0.00024
	A1	-0.00021	-0.00021	-0.00020
	A1	0.00174	0.00177	0.00189
	A2	-0.00009	-0.00005	0.00012
	A2	0.00017	0.00018	0.00018
	A2	-0.00021	-0.00021	-0.00021
	A2	0.00161	0.00164	0.00177
	B0	-0.00009	-0.00003	0.00028
	B0	0.00028	0.00029	0.00029
	B0	-0.00008	-0.00007	-0.00006
	B0	0.00138	0.00146	0.00173
	B1	-0.00009	-0.00003	0.00028
	B1	0.00023	0.00023	0.00024
	B1	-0.00008	-0.00007	-0.00006
	B1	0.00121	0.00129	0.00156
	B2	-0.00007	-0.00000	0.00036
	B2	0.00012	0.00012	0.00019
	B2	-0.00008	-0.00007	-0.00007
	B2	0.00108	0.00115	0.00145

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7R	**(A1 * A2 * B2 * !YN)**	-0.00011	-0.00010	-0.00009
	(A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * A2 * B2 * !YN)	0.00026	0.00026	0.00026
	(A1 * A2 * B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00026	0.00026	0.00026
	(A1 * !A2 * B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * !A2 * B2 * !YN)	0.00026	0.00026	0.00026
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(!A1 * A2 * B2 * !YN)	-0.00011	-0.00009	-0.00008
	(!A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B2 * !YN)	0.00000	0.00000	0.00001
	(!A1 * A2 * B2 * !YN)	0.00026	0.00026	0.00026
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00010	-0.00009	-0.00008
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00000
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00010	-0.00009	-0.00008
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00026	0.00026	0.00026
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00013	-0.00012
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00024	0.00024	0.00024

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7R	**(A1 * A2 * B2 * !YN)**	0.00011	0.00011	0.00011
	(A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * A2 * B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * A2 * B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(A1 * !B0 * !B1 * !B2 * YN)	0.00010	0.00011	0.00011
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00026	-0.00026	-0.00026
	(A1 * !A2 * B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B2 * !YN)	-0.00026	-0.00026	-0.00025
	(A1 * !A2 * B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00025
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * B2 * !YN)	0.00010	0.00010	0.00011
	(!A1 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(!A1 * A2 * B2 * !YN)	-0.00026	-0.00026	-0.00025
	(!A1 * A2 * B1 * !B2 * !YN)	0.00010	0.00010	0.00010
	(!A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00010	0.00011	0.00011
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00026	-0.00026	-0.00026
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00010	0.00010	0.00010
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00026	-0.00026	-0.00025
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00013	0.00013	0.00013
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7R	**(A0 * A2 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * A2 * B2 * !YN)	0.00022	0.00022	0.00022
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B1 * !B2 * !YN)	0.00022	0.00022	0.00022
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00022	0.00022	0.00022
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00021	0.00021	0.00022
	(A0 * !A2 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A2 * B2 * !YN)	0.00021	0.00022	0.00022
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B1 * !B2 * !YN)	0.00022	0.00022	0.00022
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00021	0.00022	0.00022
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00011	-0.00010	-0.00009
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00021	0.00021	0.00022
	(!A0 * A2 * B2 * !YN)	-0.00011	-0.00010	-0.00009
	(!A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B2 * !YN)	0.00000	0.00001	0.00000
	(!A0 * A2 * B2 * !YN)	0.00021	0.00022	0.00023
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00009
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	0.00021	0.00022	0.00023
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00009
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00021	0.00022	0.00023
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00011	-0.00010	-0.00009
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00019	0.00019	0.00019

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7R	**(A0 * A2 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B2 * !YN)	-0.00022	-0.00021	-0.00021
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00022	-0.00021	-0.00021
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00022	-0.00021	-0.00021
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00006	0.00006	0.00006
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00022	-0.00021	-0.00021
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A2 * B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * B2 * !YN)	-0.00022	-0.00021	-0.00021
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00022	-0.00021	-0.00021
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00022	-0.00021	-0.00021
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00011	0.00011	0.00011
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * B2 * !YN)	0.00011	0.00012	0.00012
	(!A0 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B2 * !YN)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * B1 * !B2 * !YN)	0.00011	0.00012	0.00012
	(!A0 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00021	-0.00021	-0.00021
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00011	0.00012	0.00012
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00022	-0.00021	-0.00021
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00011	0.00011	0.00011
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00001	-0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00013	0.00014	0.00014
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00018	-0.00017	-0.00014

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7R	**(A1 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B2 * !YN)	0.00000	0.00001	0.00000
	(A1 * B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00013	-0.00011
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00020	0.00021	0.00021
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B2 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00012	-0.00010
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00018	0.00018	0.00019

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7R	**(A1 * B2 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * B2 * !YN)	-0.00000	-0.00001	-0.00000
	(A1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * !B2 * YN)	0.00014	0.00014	0.00014
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00021	-0.00020	-0.00020
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00026
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00013	0.00013	0.00013
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00021	-0.00021	-0.00020
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00016	0.00016	0.00017
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00018	-0.00016	-0.00014

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7R	**(A2 * B1 * B2 * !YN)**	-0.00011	-0.00010	-0.00009
	(A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * B2 * !YN)	0.00027	0.00027	0.00027
	(A2 * B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00001
	(A2 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A2 * !B1 * B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * B1 * B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00011	-0.00010	-0.00009
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00010	-0.00009	-0.00008
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00020	-0.00019	-0.00018
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00020	-0.00019	-0.00017
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7R	**(A2 * B1 * B2 * !YN)**	0.00011	0.00011	0.00011
	(A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A2 * B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A2 * !B1 * B2 * !YN)	0.00010	0.00010	0.00011
	(A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * !B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B1 * B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * !B1 * B2 * !YN)	0.00010	0.00010	0.00010
	(A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00010	0.00010	0.00010
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00007	-0.00007	-0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7R	**(A2 * B0 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B0 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A2 * B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * B2 * !YN)	0.00024	0.00024	0.00024
	(A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * !B2 * !YN)	0.00024	0.00024	0.00024
	(A2 * !B0 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	0.00023	0.00024	0.00025
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * B2 * !YN)	0.00024	0.00024	0.00024
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	0.00023	0.00024	0.00024
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00023	0.00024	0.00025
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00024	0.00024	0.00024
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00024	0.00024	0.00024
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00023	0.00024	0.00025
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00021	-0.00020	-0.00018
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00021	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7R	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00006	0.00006	0.00006
	(A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00024	-0.00024	-0.00023
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A2 * B0 * !B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A2 * B0 * !B2 * !YN)	-0.00024	-0.00024	-0.00023
	(A2 * !B0 * B2 * !YN)	0.00012	0.00012	0.00012
	(A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * !B0 * B2 * !YN)	-0.00024	-0.00023	-0.00023
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00006	0.00006	0.00006
	(A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00024	-0.00024	-0.00023
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00024	-0.00024	-0.00023
	(A1 * !A2 * !B0 * B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00024	-0.00023	-0.00023
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00024	-0.00024	-0.00023
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00022	0.00023	0.00023
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00004	-0.00004	-0.00003

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7R	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00002	-0.00003	-0.00002
	(A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * !YN)	0.00028	0.00028	0.00028
	(A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * !B1 * !YN)	0.00028	0.00028	0.00028
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00028	0.00028	0.00028
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00002	-0.00003	-0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00028	0.00028	0.00028
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00020	-0.00019	-0.00017
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00019	-0.00017	-0.00015
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1H7R	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A2 * B1 * !YN)	-0.00028	-0.00028	-0.00028
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	0.00002	0.00003	0.00003
	(A2 * B0 * !B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A2 * B0 * !B1 * !YN)	-0.00028	-0.00028	-0.00028
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00028	-0.00028	-0.00028
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * !A2 * B1 * YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !A2 * B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00021	0.00021	0.00022
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004

OAI33X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X1P4H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	B0	B1	B2	YN
OAI33X1P4H7R	0.00075	0.00079	0.00086	0.00092	0.00085	0.00092	0.02052

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI33X1P4H7R	0.00000	0.15682	0.63335

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X1P4H7R	A0->YN (FR)	0.06606	0.20712	0.60668
	A1->YN (FR)	0.06418	0.21317	0.64445
	A2->YN (FR)	0.05904	0.20842	0.64460
	B0->YN (FR)	0.04919	0.18699	0.58775
	B1->YN (FR)	0.04531	0.19084	0.62470
	B2->YN (FR)	0.04015	0.18612	0.62519

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X1P4H7R	A0->YN (RF)	0.03384	0.12079	0.39645
	A1->YN (RF)	0.03225	0.11795	0.39258
	A2->YN (RF)	0.02997	0.11453	0.39026
	B0->YN (RF)	0.02857	0.11296	0.39568
	B1->YN (RF)	0.02610	0.10904	0.39062
	B2->YN (RF)	0.02397	0.10563	0.38731

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X1P4H7R	A0	0.00227	0.00230	0.00246
	A0	-0.00020	-0.00020	-0.00020
	A0	0.00026	0.00026	0.00026
	A0	-0.00002	0.00002	0.00016
	A1	0.00208	0.00212	0.00231
	A1	-0.00015	-0.00014	-0.00014
	A1	0.00026	0.00026	0.00026
	A1	0.00003	0.00007	0.00025
	A2	0.00189	0.00195	0.00227
	A2	-0.00007	-0.00007	-0.00007
	A2	0.00026	0.00026	0.00026
	A2	0.00003	0.00010	0.00041
	B0	0.00182	0.00188	0.00207
	B0	-0.00020	-0.00020	-0.00020
	B0	0.00008	0.00009	0.00010
	B0	-0.00001	0.00005	0.00027
	B1	0.00161	0.00167	0.00190
	B1	-0.00014	-0.00014	-0.00012
	B1	0.00008	0.00009	0.00009
	B1	0.00004	0.00010	0.00035
	B2	0.00143	0.00150	0.00187
	B2	-0.00007	-0.00007	-0.00007
	B2	0.00008	0.00009	0.00009
	B2	0.00002	0.00011	0.00050

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X1P4H7R	A0	-0.00010	-0.00007	0.00010
	A0	0.00033	0.00034	0.00034
	A0	-0.00024	-0.00024	-0.00023
	A0	0.00214	0.00217	0.00231
	A1	-0.00010	-0.00006	0.00010
	A1	0.00027	0.00027	0.00027
	A1	-0.00024	-0.00024	-0.00024
	A1	0.00194	0.00197	0.00211
	A2	-0.00010	-0.00005	0.00016
	A2	0.00020	0.00020	0.00020
	A2	-0.00025	-0.00024	-0.00023
	A2	0.00177	0.00181	0.00197
	B0	-0.00011	-0.00004	0.00031
	B0	0.00033	0.00034	0.00034
	B0	-0.00009	-0.00009	-0.00008
	B0	0.00158	0.00166	0.00196
	B1	-0.00009	-0.00003	0.00033
	B1	0.00027	0.00027	0.00027
	B1	-0.00009	-0.00009	-0.00007
	B1	0.00134	0.00145	0.00176
	B2	-0.00008	-0.00001	0.00041
	B2	0.00020	0.00020	0.00020
	B2	-0.00009	-0.00009	-0.00007
	B2	0.00126	0.00132	0.00166

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7R	**(A1 * A2 * B2 * !YN)**	-0.00012	-0.00011	-0.00010
	(A1 * A2 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B2 * !YN)	0.00000	0.00000	0.00001
	(A1 * A2 * B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * A2 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(!A1 * A2 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(!A1 * A2 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B2 * !YN)	0.00027	0.00027	0.00027
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00027	0.00027	0.00027
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00009
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00027	0.00027	0.00028
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00011	-0.00009
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00027	0.00027	0.00027
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00014	-0.00014
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00026

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7R	**(A1 * A2 * B2 * !YN)**	0.00012	0.00012	0.00012
	(A1 * A2 * B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B2 * !YN)	-0.00001	-0.00000	0.00000
	(A1 * A2 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * A2 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !B0 * !B1 * !B2 * YN)	0.00012	0.00012	0.00012
	(A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B2 * !YN)	0.00012	0.00013	0.00013
	(A1 * !A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B2 * !YN)	-0.00001	-0.00000	0.00000
	(A1 * !A2 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B1 * !B2 * !YN)	0.00012	0.00013	0.00013
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00012	0.00013	0.00013
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * B2 * !YN)	0.00012	0.00012	0.00012
	(!A1 * A2 * B2 * !YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B2 * !YN)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(!A1 * A2 * B1 * !B2 * !YN)	0.00001	0.00002	0.00002
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00012	0.00012	0.00012
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00002	0.00002
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00027	-0.00027	-0.00027
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00012	0.00012	0.00012
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00027	-0.00027
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00015	0.00015	0.00015
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00023	-0.00021

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7R	**(A0 * A2 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B2 * !YN)	0.00023	0.00023	0.00024
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B1 * !B2 * !YN)	0.00023	0.00023	0.00024
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00007	-0.00007	-0.00006
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00023	0.00023	0.00023
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00007	-0.00007	-0.00007
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00023	0.00023	0.00023
	(A0 * !A2 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00001
	(A0 * !A2 * B2 * !YN)	0.00023	0.00023	0.00023
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B1 * !B2 * !YN)	0.00023	0.00023	0.00023
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00023	0.00023	0.00023
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00012	-0.00010
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00023	0.00023	0.00023
	(!A0 * A2 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B2 * !YN)	0.00023	0.00023	0.00024
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	0.00023	0.00023	0.00024
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00001	-0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00023	0.00023	0.00025
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00013	-0.00012	-0.00010
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00015	-0.00015	-0.00015
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00020	0.00020	0.00021

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7R	**(A0 * A2 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00007	0.00007	0.00007
	(A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00007	0.00007	0.00007
	(A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00006	0.00007	0.00007
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00007	0.00007	0.00007
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A2 * B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A0 * !A2 * B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00023	-0.00023	-0.00023
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00013	0.00013	0.00013
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B2 * !YN)	0.00013	0.00014	0.00014
	(!A0 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B2 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B1 * !B2 * !YN)	0.00013	0.00014	0.00014
	(!A0 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00013	0.00014	0.00014
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00002
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00013	0.00013	0.00013
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00023	-0.00023	-0.00023
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00015	0.00016	0.00016
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00018	-0.00016

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7R	**(A1 * B2 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * B2 * !YN)	0.00028	0.00028	0.00029
	(A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * B1 * !B2 * !YN)	0.00028	0.00028	0.00028
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !B2 * !YN)	0.00028	0.00028	0.00028
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00022	0.00022	0.00023
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B2 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B1 * !B2 * !YN)	0.00028	0.00028	0.00029
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00028	0.00028	0.00029
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00012	-0.00010
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00022	0.00022	0.00023
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00020	0.00020	0.00020

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7R	**(A1 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A1 * !B0 * !B1 * !B2 * YN)	0.00014	0.00014	0.00014
	(A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00022	-0.00022	-0.00022
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00014	0.00014	0.00014
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00023	-0.00022	-0.00022
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00017	0.00017	0.00018
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00019	-0.00017	-0.00015

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7R	**(A2 * B1 * B2 * !YN)**	-0.00012	-0.00011	-0.00010
	(A2 * B1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * B2 * !YN)	0.00030	0.00030	0.00030
	(A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * !B2 * !YN)	0.00030	0.00030	0.00030
	(A2 * !B1 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A2 * !B1 * B2 * !YN)	-0.00002	-0.00002	-0.00001
	(A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	0.00030	0.00030	0.00031
	(A1 * !A2 * B1 * B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * B2 * !YN)	0.00030	0.00030	0.00030
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00030	0.00030	0.00030
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00002	-0.00002	-0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00030	0.00030	0.00030
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00030	0.00030	0.00030
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00012	-0.00011	-0.00010
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00030	0.00030	0.00030
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00012	-0.00011	-0.00009
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00030	0.00030	0.00030
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00025	-0.00024	-0.00022
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00025	-0.00024	-0.00022
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00024	-0.00023	-0.00021
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00027	-0.00026	-0.00026
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00006	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7R	**(A2 * B1 * B2 * !YN)**	0.00012	0.00012	0.00012
	(A2 * B1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * B2 * !YN)	-0.00030	-0.00030	-0.00030
	(A2 * B1 * !B2 * !YN)	0.00012	0.00013	0.00013
	(A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * !B2 * !YN)	-0.00030	-0.00030	-0.00030
	(A2 * !B1 * B2 * !YN)	0.00012	0.00012	0.00012
	(A2 * !B1 * B2 * !YN)	0.00001	0.00002	0.00002
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00000	-0.00000
	(A2 * !B1 * B2 * !YN)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * B1 * B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * B1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * B2 * !YN)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * B1 * !B2 * !YN)	0.00012	0.00013	0.00013
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00030	-0.00030	-0.00030
	(A1 * !A2 * !B1 * B2 * !YN)	0.00012	0.00012	0.00012
	(A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00002	0.00002
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00012	0.00013	0.00013
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00030	-0.00030	-0.00030
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00012	0.00012	0.00012
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00030	-0.00030	-0.00030
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00024	0.00025	0.00025
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00026	0.00026	0.00027
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7R	**(A2 * B0 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B0 * B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * B2 * !YN)	0.00024	0.00024	0.00025
	(A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * !B2 * !YN)	0.00024	0.00024	0.00024
	(A2 * !B0 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	0.00024	0.00024	0.00026
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00007	-0.00007	-0.00006
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * B2 * !YN)	0.00024	0.00024	0.00025
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	0.00024	0.00024	0.00024
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	0.00024	0.00024	0.00025
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00007	-0.00007	-0.00006
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00024	0.00024	0.00025
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00024	0.00024	0.00024
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00013	-0.00012	-0.00010
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00024	0.00024	0.00026
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00007	-0.00007	-0.00007
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00022	-0.00020	-0.00019
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00024	-0.00023	-0.00023
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00000	-0.00000	0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7R	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00007	0.00007	0.00007
	(A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00024	-0.00024	-0.00024
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00005	0.00005	0.00005
	(A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * !B2 * !YN)	-0.00024	-0.00024	-0.00024
	(A2 * !B0 * B2 * !YN)	0.00013	0.00013	0.00013
	(A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * !B0 * B2 * !YN)	-0.00024	-0.00024	-0.00024
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00006	0.00007	0.00007
	(A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00024	-0.00024	-0.00024
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00005	0.00005	0.00005
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00024	-0.00024	-0.00024
	(A1 * !A2 * !B0 * B2 * !YN)	0.00013	0.00013	0.00013
	(A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00002
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00006	0.00007	0.00007
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00024	-0.00024	-0.00024
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00013	0.00013	0.00013
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00024	-0.00024	-0.00024
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00007	0.00007	0.00007
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00021	0.00021	0.00022
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7R	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * !YN)	0.00032	0.00032	0.00032
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !B1 * !YN)	0.00032	0.00032	0.00032
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00031	0.00032	0.00032
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00031	0.00032	0.00032
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00031	0.00032	0.00032
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00031	0.00032	0.00032
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00024	-0.00022	-0.00020
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00023	-0.00021	-0.00019
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00026	-0.00025	-0.00025
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X1P4H7R	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * !YN)	-0.00032	-0.00032	-0.00031
	(A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * !B1 * !YN)	-0.00032	-0.00032	-0.00031
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00032	-0.00032	-0.00031
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00032	-0.00032	-0.00031
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00032	-0.00032	-0.00031
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00032	-0.00032	-0.00031
	(!A0 * !A1 * !A2 * B1 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00025	0.00026	0.00026
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004

OAI33X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X2H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	B0	B1	B2	YN
OAI33X2H7R	0.00087	0.00088	0.00097	0.00096	0.00096	0.00097	0.02419

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI33X2H7R	0.00000	0.18583	0.75040

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X2H7R	A0->YN (FR)	0.06202	0.20424	0.60849
	A1->YN (FR)	0.06020	0.21007	0.64498
	A2->YN (FR)	0.05475	0.20483	0.64499
	B0->YN (FR)	0.04467	0.18357	0.58826
	B1->YN (FR)	0.04176	0.18803	0.62560
	B2->YN (FR)	0.03556	0.18219	0.62526

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X2H7R	A0->YN (RF)	0.03134	0.11695	0.39071
	A1->YN (RF)	0.02984	0.11416	0.38727
	A2->YN (RF)	0.02755	0.11063	0.38409
	B0->YN (RF)	0.02609	0.10904	0.38896
	B1->YN (RF)	0.02417	0.10562	0.38546
	B2->YN (RF)	0.02159	0.10177	0.38244

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X2H7R	A0	0.00257	0.00260	0.00278
	A0	-0.00024	-0.00024	-0.00024
	A0	0.00031	0.00031	0.00031
	A0	-0.00009	-0.00005	0.00013
	A1	0.00233	0.00239	0.00261
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00031	0.00031	0.00031
	A1	-0.00000	0.00004	0.00026
	A2	0.00209	0.00218	0.00256
	A2	-0.00009	-0.00009	-0.00007
	A2	0.00031	0.00031	0.00031
	A2	-0.00001	0.00006	0.00044
	B0	0.00203	0.00210	0.00234
	B0	-0.00025	-0.00024	-0.00024
	B0	0.00010	0.00011	0.00011
	B0	-0.00004	0.00003	0.00030
	B1	0.00180	0.00187	0.00215
	B1	-0.00017	-0.00017	-0.00017
	B1	0.00009	0.00011	0.00011
	B1	-0.00001	0.00006	0.00037
	B2	0.00156	0.00165	0.00210
	B2	-0.00009	-0.00009	-0.00007
	B2	0.00010	0.00011	0.00011
	B2	-0.00002	0.00009	0.00057

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X2H7R	A0	-0.00012	-0.00008	0.00012
	A0	0.00040	0.00040	0.00040
	A0	-0.00029	-0.00029	-0.00025
	A0	0.00245	0.00250	0.00266
	A1	-0.00011	-0.00007	0.00013
	A1	0.00032	0.00032	0.00034
	A1	-0.00031	-0.00029	-0.00029
	A1	0.00221	0.00225	0.00241
	A2	-0.00012	-0.00006	0.00020
	A2	0.00024	0.00024	0.00025
	A2	-0.00029	-0.00029	-0.00027
	A2	0.00202	0.00206	0.00226
	B0	-0.00012	-0.00005	0.00038
	B0	0.00040	0.00040	0.00040
	B0	-0.00011	-0.00011	-0.00009
	B0	0.00176	0.00187	0.00224
	B1	-0.00011	-0.00003	0.00039
	B1	0.00032	0.00032	0.00033
	B1	-0.00011	-0.00010	-0.00008
	B1	0.00155	0.00166	0.00202
	B2	-0.00009	-0.00000	0.00051
	B2	0.00022	0.00024	0.00025
	B2	-0.00011	-0.00010	-0.00009
	B2	0.00141	0.00148	0.00190

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7R	**(A1 * A2 * B2 * !YN)**	-0.00015	-0.00014	-0.00012
	(A1 * A2 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B2 * !YN)	0.00032	0.00032	0.00033
	(A1 * A2 * B1 * !B2 * !YN)	-0.00015	-0.00014	-0.00012
	(A1 * A2 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00014	-0.00014	-0.00012
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00015	-0.00013	-0.00012
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00032	0.00033	0.00033
	(A1 * !A2 * B2 * !YN)	-0.00015	-0.00014	-0.00012
	(A1 * !A2 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B2 * !YN)	0.00032	0.00032	0.00033
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00015	-0.00014	-0.00012
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00015	-0.00014	-0.00012
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(!A1 * A2 * B2 * !YN)	-0.00014	-0.00013	-0.00010
	(!A1 * A2 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B2 * !YN)	0.00032	0.00032	0.00033
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00014	-0.00013	-0.00010
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A1 * A2 * B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00014	-0.00013	-0.00010
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00014	-0.00013	-0.00011
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00032	0.00032	0.00033
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00017	-0.00017	-0.00017
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00030	0.00030	0.00030

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7R	**(A1 * A2 * B2 * !YN)**	0.00014	0.00014	0.00015
	(A1 * A2 * B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B2 * !YN)	-0.00033	-0.00032	-0.00032
	(A1 * A2 * B1 * !B2 * !YN)	0.00014	0.00015	0.00015
	(A1 * A2 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B1 * !B2 * !YN)	-0.00033	-0.00032	-0.00032
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00014	0.00014	0.00015
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * !B1 * !B2 * YN)	0.00014	0.00015	0.00015
	(A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00032	-0.00032	-0.00032
	(A1 * !A2 * B2 * !YN)	0.00015	0.00015	0.00015
	(A1 * !A2 * B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B2 * !YN)	-0.00033	-0.00032	-0.00032
	(A1 * !A2 * B1 * !B2 * !YN)	0.00015	0.00015	0.00015
	(A1 * !A2 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00033	-0.00032	-0.00032
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00015	0.00015	0.00015
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00033	-0.00032	-0.00032
	(!A1 * A2 * B2 * !YN)	0.00014	0.00014	0.00014
	(!A1 * A2 * B2 * !YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B2 * !YN)	-0.00033	-0.00032	-0.00032
	(!A1 * A2 * B1 * !B2 * !YN)	0.00014	0.00014	0.00014
	(!A1 * A2 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B1 * !B2 * !YN)	-0.00033	-0.00032	-0.00032
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00014	0.00014	0.00014
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !B1 * !B2 * !YN)	-0.00033	-0.00032	-0.00032
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00014	0.00014	0.00014
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00033	-0.00032	-0.00032
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00017	0.00017	0.00018
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00030	-0.00028	-0.00025

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7R	**(A0 * A2 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B2 * !YN)	0.00026	0.00026	0.00026
	(A0 * A2 * B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B1 * !B2 * !YN)	0.00026	0.00026	0.00026
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00025	0.00026	0.00026
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00008	-0.00008	-0.00008
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00025
	(A0 * !A2 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B2 * !YN)	0.00025	0.00025	0.00026
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00006	-0.00006	-0.00005
	(A0 * !A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B1 * !B2 * !YN)	0.00025	0.00025	0.00026
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00025	0.00025	0.00026
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00015	-0.00014	-0.00012
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00025
	(!A0 * A2 * B2 * !YN)	-0.00015	-0.00014	-0.00012
	(!A0 * A2 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B2 * !YN)	0.00025	0.00026	0.00027
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00015	-0.00014	-0.00012
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B1 * !B2 * !YN)	0.00025	0.00026	0.00027
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00015	-0.00014	-0.00012
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00025	0.00026	0.00027
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00015	-0.00014	-0.00012
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00018	-0.00018	-0.00018
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00000	0.00000
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00022	0.00022	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7R	**(A0 * A2 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B2 * !YN)	0.00008	0.00008	0.00008
	(A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * A2 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B1 * !B2 * !YN)	0.00008	0.00008	0.00008
	(A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00008	0.00008	0.00008
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00008	0.00008	0.00008
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00015	0.00015	0.00015
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * B2 * !YN)	0.00016	0.00016	0.00016
	(!A0 * A2 * B2 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B2 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * B1 * !B2 * !YN)	0.00016	0.00016	0.00016
	(!A0 * A2 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00016	0.00016	0.00016
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * B0 * !B1 * !B2 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00015	0.00015	0.00015
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00025	-0.00025
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00018	0.00018	0.00019
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00022	-0.00020	-0.00017

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7R	**(A1 * B2 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * B2 * !YN)	0.00032	0.00032	0.00033
	(A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A1 * B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00017	-0.00016	-0.00014
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00025
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B2 * !YN)	0.00032	0.00032	0.00033
	(A0 * !A1 * B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00032	0.00032	0.00033
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00017	-0.00015	-0.00012
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00022	0.00022	0.00023

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7R	**(A1 * B2 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B2 * !YN)	0.00004	0.00004	0.00004
	(A1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A1 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B1 * !B2 * !YN)	-0.00033	-0.00032	-0.00032
	(A1 * B0 * !B1 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !B1 * !B2 * !YN)	0.00004	0.00004	0.00004
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !B1 * !B2 * !YN)	-0.00033	-0.00032	-0.00032
	(A1 * !B0 * !B1 * !B2 * YN)	0.00017	0.00017	0.00017
	(A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00025	-0.00025
	(A0 * !A1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B2 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	0.00003	0.00004	0.00004
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B1 * !B2 * !YN)	-0.00033	-0.00032	-0.00032
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	0.00003	0.00004	0.00004
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * B0 * !B1 * !B2 * !YN)	-0.00032	-0.00032	-0.00032
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00017	0.00017	0.00017
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00020	0.00021	0.00021
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00022	-0.00020	-0.00017

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

	(A2 * B1 * B2 * !YN)	-0.00014	-0.00013	-0.00012
	(A2 * B1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * B2 * !YN)	0.00031	0.00031	0.00031
	(A2 * B1 * !B2 * !YN)	-0.00015	-0.00014	-0.00012
	(A2 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * B1 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B1 * !B2 * !YN)	0.00031	0.00031	0.00031
	(A2 * !B1 * B2 * !YN)	-0.00014	-0.00013	-0.00011
	(A2 * !B1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * !B1 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	0.00031	0.00031	0.00031
	(A1 * !A2 * B1 * B2 * !YN)	-0.00014	-0.00014	-0.00012
	(A1 * !A2 * B1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * B2 * !YN)	0.00031	0.00031	0.00031
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00015	-0.00014	-0.00012
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !B2 * !YN)	0.00031	0.00031	0.00031
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00014	-0.00013	-0.00011
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00031	0.00031	0.00031
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00014	-0.00013	-0.00012
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
OAI33X2H7R	**(A0 * !A1 * !A2 * B1 * B2 * !YN)**	0.00000	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00031	0.00031	0.00031
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00015	-0.00014	-0.00012
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00031	0.00031	0.00031
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00014	-0.00013	-0.00011
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00031	0.00031	0.00031
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00026	-0.00025	-0.00023
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00026	-0.00025	-0.00024
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00026	-0.00024	-0.00022
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00028	-0.00028	-0.00028
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00005	0.00006	0.00006

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7R	**(A2 * B1 * B2 * !YN)**	0.00014	0.00014	0.00015
	(A2 * B1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A2 * B1 * !B2 * !YN)	0.00015	0.00015	0.00015
	(A2 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A2 * !B1 * B2 * !YN)	0.00014	0.00014	0.00014
	(A2 * !B1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * !B1 * B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * B1 * B2 * !YN)	0.00014	0.00014	0.00014
	(A1 * !A2 * B1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * B1 * !B2 * !YN)	0.00015	0.00015	0.00015
	(A1 * !A2 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A1 * !A2 * !B1 * B2 * !YN)	0.00014	0.00014	0.00014
	(A1 * !A2 * !B1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00014	0.00015	0.00015
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B1 * B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00015	0.00015	0.00015
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !B2 * !YN)	-0.00031	-0.00031	-0.00031
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00014	0.00014	0.00014
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00002	0.00002	0.00002
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00031	-0.00031	-0.00031
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * B2 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * !B2 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00026	0.00026	0.00026
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00028	0.00028	0.00028
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00005	-0.00005	-0.00005

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

	(A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A2 * B0 * B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * B2 * !YN)	0.00028	0.00028	0.00029
	(A2 * B0 * !B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A2 * B0 * !B2 * !YN)	0.00000	0.00001	0.00001
	(A2 * B0 * !B2 * !YN)	0.00028	0.00028	0.00028
	(A2 * !B0 * B2 * !YN)	-0.00015	-0.00014	-0.00012
	(A2 * !B0 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	0.00028	0.00028	0.00029
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A1 * !A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B2 * !YN)	0.00028	0.00028	0.00028
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	0.00028	0.00028	0.00028
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00015	-0.00014	-0.00012
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	0.00028	0.00028	0.00029
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00008	-0.00008	-0.00008
OAI33X2H7R	**(A0 * !A1 * !A2 * B0 * B2 * !YN)**	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00006	-0.00006	-0.00006
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00028	0.00028	0.00028
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00015	-0.00014	-0.00012
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00002	-0.00002	-0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00028	0.00028	0.00029
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00011	-0.00011	-0.00011
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00025	-0.00024	-0.00022
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00026	-0.00024	-0.00022
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00003	0.00003	0.00003

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7R	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00008	0.00008	0.00008
	(A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * B0 * !B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A2 * !B0 * B2 * !YN)	0.00016	0.00016	0.00016
	(A2 * !B0 * B2 * !YN)	0.00002	0.00002	0.00002
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * !B0 * B2 * !YN)	-0.00028	-0.00028	-0.00027
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00008	0.00008	0.00008
	(A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A1 * !A2 * !B0 * B2 * !YN)	0.00016	0.00016	0.00016
	(A1 * !A2 * !B0 * B2 * !YN)	0.00002	0.00002	0.00002
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00028	-0.00028	-0.00027
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00006	0.00006	0.00006
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00028	-0.00028	-0.00028
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00016	0.00016	0.00016
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00002	0.00002
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00028	-0.00028	-0.00027
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00011	0.00011	0.00011
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00008	0.00008	0.00008
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00025	0.00026	0.00026
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00028	0.00028	0.00028
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7R	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	0.00033	0.00034	0.00034
	(A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !B1 * !YN)	0.00033	0.00034	0.00034
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00033	0.00034	0.00034
	(A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00033	0.00034	0.00034
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00033	0.00034	0.00034
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00033	0.00034	0.00034
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00025	-0.00023	-0.00021
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00024	-0.00022	-0.00019
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00003	0.00003	0.00003

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X2H7R	**(A2 * B1 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B1 * !YN)	0.00003	0.00003	0.00004
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !YN)	-0.00034	-0.00034	-0.00033
	(A2 * B0 * !B1 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00004
	(A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * !B1 * !YN)	-0.00034	-0.00034	-0.00033
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	-0.00034	-0.00034	-0.00033
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00034	-0.00034	-0.00033
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00003	0.00004	0.00004
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00034	-0.00034	-0.00033
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00034	-0.00034	-0.00033
	(!A0 * !A1 * !A2 * B1 * YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * !A2 * B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00024	0.00024	0.00024
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00003	-0.00003	-0.00003

OAI33X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X3H7R	5.32000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	B0	B1	B2	YN
OAI33X3H7R	0.00151	0.00149	0.00154	0.00162	0.00155	0.00154	0.03684

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI33X3H7R	0.00000	0.29120	1.18176

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X3H7R	A0->YN (FR)	0.06533	0.20657	0.60347
	A1->YN (FR)	0.06283	0.21106	0.64041
	A2->YN (FR)	0.05496	0.20385	0.64001
	B0->YN (FR)	0.03447	0.17925	0.61870
	B1->YN (FR)	0.04262	0.18676	0.61874
	B2->YN (FR)	0.04469	0.18271	0.58173

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X3H7R	A0->YN (RF)	0.03334	0.12014	0.39333
	A1->YN (RF)	0.03150	0.11674	0.38976
	A2->YN (RF)	0.02832	0.11208	0.38495
	B0->YN (RF)	0.02150	0.10228	0.38145
	B1->YN (RF)	0.02480	0.10724	0.38648
	B2->YN (RF)	0.02649	0.11063	0.39030

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X3H7R	A0	0.00467	0.00472	0.00496
	A0	-0.00037	-0.00037	-0.00036
	A0	0.00044	0.00044	0.00049
	A0	0.00011	0.00016	0.00040
	A1	0.00416	0.00426	0.00458
	A1	-0.00026	-0.00025	-0.00025
	A1	0.00048	0.00048	0.00048
	A1	0.00012	0.00019	0.00050
	A2	0.00365	0.00377	0.00437
	A2	-0.00013	-0.00013	-0.00012
	A2	0.00042	0.00044	0.00051
	A2	0.00004	0.00016	0.00075
	B0	0.00274	0.00290	0.00362
	B0	-0.00013	-0.00013	-0.00012
	B0	0.00015	0.00016	0.00017
	B0	-0.00001	0.00016	0.00086
	B1	0.00327	0.00337	0.00380
	B1	-0.00026	-0.00025	-0.00022
	B1	0.00015	0.00016	0.00017
	B1	0.00008	0.00019	0.00060
	B2	0.00373	0.00382	0.00417
	B2	-0.00038	-0.00037	-0.00036
	B2	0.00012	0.00016	0.00017
	B2	0.00008	0.00017	0.00051

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X3H7R	A0	-0.00010	-0.00005	0.00022
	A0	0.00059	0.00060	0.00061
	A0	-0.00047	-0.00044	-0.00044
	A0	0.00416	0.00423	0.00446
	A1	-0.00007	-0.00001	0.00027
	A1	0.00044	0.00049	0.00054
	A1	-0.00045	-0.00044	-0.00043
	A1	0.00380	0.00388	0.00410
	A2	-0.00003	0.00006	0.00043
	A2	0.00031	0.00036	0.00037
	A2	-0.00044	-0.00044	-0.00042
	A2	0.00347	0.00353	0.00383
	B0	-0.00004	0.00010	0.00086
	B0	0.00036	0.00037	0.00039
	B0	-0.00016	-0.00016	-0.00012
	B0	0.00249	0.00261	0.00325
	B1	-0.00008	0.00004	0.00067
	B1	0.00048	0.00049	0.00050
	B1	-0.00016	-0.00016	-0.00012
	B1	0.00278	0.00294	0.00349
	B2	-0.00012	-0.00001	0.00063
	B2	0.00059	0.00060	0.00060
	B2	-0.00016	-0.00016	-0.00012
	B2	0.00311	0.00328	0.00384

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7R	**(A1 * A2 * B0 * !YN)**	-0.00026	-0.00024	-0.00020
	(A1 * A2 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * B0 * !YN)	0.00050	0.00050	0.00051
	(A1 * A2 * !B0 * B1 * !YN)	-0.00026	-0.00024	-0.00020
	(A1 * A2 * !B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * !B0 * B1 * !YN)	0.00050	0.00050	0.00051
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00026	-0.00024	-0.00019
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00050	0.00050	0.00050
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00027	-0.00024	-0.00020
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00049	0.00049	0.00049
	(A1 * !A2 * B0 * !YN)	-0.00027	-0.00024	-0.00019
	(A1 * !A2 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !YN)	0.00050	0.00050	0.00050
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00027	-0.00024	-0.00019
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	0.00049	0.00050	0.00050
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00027	-0.00024	-0.00019
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00050	0.00050	0.00050
	(!A1 * A2 * B0 * !YN)	-0.00026	-0.00022	-0.00017
	(!A1 * A2 * B0 * !YN)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * B0 * !YN)	0.00050	0.00050	0.00051
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00026	-0.00022	-0.00017
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * !YN)	0.00050	0.00050	0.00051
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00026	-0.00022	-0.00017
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00050	0.00050	0.00051
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00026	-0.00023	-0.00018
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00004	-0.00003	-0.00003
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00049	0.00050	0.00050
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00034	-0.00033	-0.00033
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	0.00000
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00003	0.00003
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00043	0.00044	0.00044

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7R	**(A1 * A2 * B0 * !YN)**	0.00026	0.00026	0.00026
	(A1 * A2 * B0 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * B0 * !YN)	-0.00050	-0.00049	-0.00049
	(A1 * A2 * !B0 * B1 * !YN)	0.00026	0.00026	0.00026
	(A1 * A2 * !B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !B0 * B1 * !YN)	-0.00050	-0.00049	-0.00049
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00026	0.00026	0.00027
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00050	-0.00049	-0.00049
	(A1 * !B0 * !B1 * !B2 * YN)	0.00026	0.00027	0.00027
	(A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00049	-0.00049	-0.00049
	(A1 * !A2 * B0 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * B0 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !YN)	-0.00050	-0.00049	-0.00049
	(A1 * !A2 * !B0 * B1 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * !B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00050	-0.00049	-0.00049
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00027	0.00027	0.00027
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00050	-0.00049	-0.00049
	(!A1 * A2 * B0 * !YN)	0.00025	0.00026	0.00026
	(!A1 * A2 * B0 * !YN)	0.00003	0.00003	0.00004
	(!A1 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * B0 * !YN)	-0.00050	-0.00050	-0.00050
	(!A1 * A2 * !B0 * B1 * !YN)	0.00025	0.00026	0.00026
	(!A1 * A2 * !B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00050	-0.00049	-0.00049
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00025	0.00026	0.00026
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00050	-0.00050	-0.00049
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00025	0.00026	0.00026
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00004
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00049	-0.00049	-0.00049
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00034	0.00034	0.00036
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00002
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00043	-0.00040	-0.00036

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7R	**(A0 * A2 * B0 * !YN)**	-0.00000	-0.00000	0.00000
	(A0 * A2 * B0 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !YN)	0.00049	0.00050	0.00050
	(A0 * A2 * !B0 * B1 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * B1 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * B1 * !YN)	0.00049	0.00050	0.00050
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00049	0.00049	0.00050
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00012	-0.00012	-0.00012
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00047	0.00047	0.00047
	(A0 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * B0 * !YN)	0.00048	0.00049	0.00049
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * B1 * !YN)	0.00048	0.00049	0.00049
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00049	0.00049	0.00049
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00032	-0.00028	-0.00025
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00043	0.00043	0.00044
	(!A0 * A2 * B0 * !YN)	-0.00033	-0.00030	-0.00025
	(!A0 * A2 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !YN)	0.00043	0.00045	0.00047
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00033	-0.00030	-0.00025
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * !YN)	0.00043	0.00045	0.00047
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00033	-0.00030	-0.00025
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00043	0.00045	0.00048
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00033	-0.00030	-0.00026
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00043	0.00043	0.00044
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00039	-0.00038	-0.00038
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00037	0.00038	0.00038

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7R	**(A0 * A2 * B0 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !YN)	0.00011	0.00011	0.00011
	(A0 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !YN)	-0.00049	-0.00049	-0.00049
	(A0 * A2 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * B1 * !YN)	0.00011	0.00011	0.00011
	(A0 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * B1 * !YN)	-0.00049	-0.00049	-0.00049
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00011	0.00011	0.00011
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00049	-0.00049	-0.00048
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00012	0.00012	0.00012
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00047	-0.00047	-0.00046
	(A0 * !A2 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !YN)	0.00008	0.00008	0.00008
	(A0 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * B0 * !YN)	-0.00049	-0.00048	-0.00048
	(A0 * !A2 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * !YN)	0.00008	0.00008	0.00008
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00049	-0.00048	-0.00048
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00008	0.00008	0.00008
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00049	-0.00049	-0.00048
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00031	0.00031	0.00032
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00004
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00043	-0.00043	-0.00042
	(!A0 * A2 * B0 * !YN)	0.00033	0.00033	0.00033
	(!A0 * A2 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !YN)	-0.00043	-0.00043	-0.00043
	(!A0 * A2 * !B0 * B1 * !YN)	0.00033	0.00033	0.00033
	(!A0 * A2 * !B0 * B1 * !YN)	0.00002	0.00003	0.00003
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00043	-0.00043	-0.00042
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00033	0.00033	0.00033
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00043	-0.00043	-0.00043
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00032	0.00033	0.00033
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00043	-0.00043	-0.00043
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00039	0.00039	0.00040
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00037	-0.00034	-0.00030

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7R	**(A1 * B0 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !YN)	0.00058	0.00059	0.00059
	(A1 * !B0 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * !YN)	0.00058	0.00059	0.00059
	(A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * B2 * !YN)	0.00058	0.00059	0.00059
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00032	-0.00029	-0.00025
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	0.00042	0.00042	0.00044
	(A0 * !A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !YN)	0.00058	0.00059	0.00059
	(A0 * !A1 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * B1 * !YN)	0.00058	0.00059	0.00059
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00058	0.00058	0.00059
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00030	-0.00026	-0.00022
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00004	-0.00003	-0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00042	0.00042	0.00043
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00038	-0.00038	-0.00038
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00037	0.00037	0.00037

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7R	**(A1 * B0 * !YN)**	-0.00000	-0.00000	0.00000
	(A1 * B0 * !YN)	0.00005	0.00005	0.00005
	(A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !YN)	-0.00059	-0.00058	-0.00058
	(A1 * !B0 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !YN)	-0.00059	-0.00058	-0.00058
	(A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * B2 * !YN)	0.00005	0.00005	0.00005
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00059	-0.00058	-0.00058
	(A1 * !B0 * !B1 * !B2 * YN)	0.00032	0.00032	0.00032
	(A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00042	-0.00042	-0.00041
	(A0 * !A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !YN)	-0.00059	-0.00058	-0.00058
	(A0 * !A1 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00059	-0.00058	-0.00058
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00058	-0.00058	-0.00057
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00030	0.00030	0.00031
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00002	0.00003	0.00004
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00042	-0.00042	-0.00041
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00038	0.00039	0.00040
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00036	-0.00034	-0.00030

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7R	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B1 * !YN)	0.00061	0.00061	0.00061
	(A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B1 * B2 * !YN)	0.00060	0.00061	0.00061
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00060	0.00061	0.00061
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00060	0.00061	0.00061
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	0.00060	0.00061	0.00061
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00060	0.00061	0.00061
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00048	-0.00045	-0.00040
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B1 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B1 * YN)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00047	-0.00042	-0.00037
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00005	-0.00004	-0.00003
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00009	0.00010	0.00010
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00054	-0.00053	-0.00053
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00008	0.00008	0.00009

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7R	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !YN)	-0.00061	-0.00061	-0.00060
	(A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	0.00005	0.00005	0.00005
	(A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B1 * B2 * !YN)	-0.00061	-0.00061	-0.00060
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !A2 * B1 * !YN)	-0.00061	-0.00061	-0.00060
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	0.00005	0.00005	0.00005
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00061	-0.00060	-0.00060
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00061	-0.00061	-0.00060
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00005	0.00005	0.00005
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00061	-0.00060	-0.00060
	(!A0 * !A1 * !A2 * B1 * YN)	0.00048	0.00048	0.00048
	(!A0 * !A1 * !A2 * B1 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00046	0.00047	0.00047
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00003	0.00004	0.00005
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00053	0.00054	0.00054
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7R	**(A2 * B0 * B2 * !YN)**	-0.00000	-0.00000	0.00000
	(A2 * B0 * B2 * !YN)	-0.00011	-0.00011	-0.00011
	(A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * B2 * !YN)	0.00050	0.00050	0.00051
	(A2 * B0 * !B2 * !YN)	-0.00033	-0.00029	-0.00024
	(A2 * B0 * !B2 * !YN)	-0.00003	-0.00003	-0.00002
	(A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !B2 * !YN)	0.00044	0.00045	0.00048
	(A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * !B0 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B0 * B2 * !YN)	0.00049	0.00050	0.00050
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B2 * !YN)	0.00050	0.00050	0.00051
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00033	-0.00029	-0.00024
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	0.00044	0.00045	0.00048
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	0.00049	0.00050	0.00050
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00050	0.00050	0.00051
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00032	-0.00029	-0.00024
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00044	0.00045	0.00048
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00008	-0.00008	-0.00008
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00049	0.00050	0.00050
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00012	-0.00012	-0.00011
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00012	0.00012	0.00012
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00049	-0.00047	-0.00042
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00009	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00048	-0.00045	-0.00041
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00054	-0.00053	-0.00053
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00008	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7R	**(A2 * B0 * B2 * !YN)**	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00011	0.00011	0.00011
	(A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * B2 * !YN)	-0.00050	-0.00050	-0.00049
	(A2 * B0 * !B2 * !YN)	0.00033	0.00033	0.00033
	(A2 * B0 * !B2 * !YN)	0.00002	0.00003	0.00003
	(A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * !B2 * !YN)	-0.00044	-0.00044	-0.00044
	(A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B0 * B2 * !YN)	0.00008	0.00008	0.00008
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B0 * B2 * !YN)	-0.00050	-0.00050	-0.00049
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00011	0.00011	0.00011
	(A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B2 * !YN)	-0.00050	-0.00050	-0.00050
	(A1 * !A2 * B0 * !B2 * !YN)	0.00033	0.00033	0.00033
	(A1 * !A2 * B0 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00044	-0.00044	-0.00044
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00008	0.00008	0.00008
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00050	-0.00050	-0.00049
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00011	0.00011	0.00011
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00050	-0.00050	-0.00049
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00033	0.00033	0.00033
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00044	-0.00044	-0.00044
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00008	0.00008	0.00008
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00050	-0.00049	-0.00049
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00019	0.00019	0.00020
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00011	0.00012	0.00012
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00049	0.00049	0.00049
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00009	-0.00009	-0.00008
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00048	0.00048	0.00048
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00009	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00054	0.00054	0.00054
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7R	**(A2 * B0 * B1 * !YN)**	-0.00026	-0.00023	-0.00019
	(A2 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * B1 * !YN)	0.00049	0.00049	0.00050
	(A2 * B0 * !B1 * !YN)	-0.00025	-0.00022	-0.00017
	(A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !B1 * !YN)	0.00049	0.00050	0.00050
	(A2 * !B0 * B1 * !YN)	-0.00026	-0.00023	-0.00019
	(A2 * !B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A2 * !B0 * B1 * !YN)	0.00000	0.00001	0.00001
	(A2 * !B0 * B1 * !YN)	0.00049	0.00050	0.00050
	(A1 * !A2 * B0 * B1 * !YN)	-0.00026	-0.00023	-0.00019
	(A1 * !A2 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B1 * !YN)	0.00049	0.00049	0.00050
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00025	-0.00022	-0.00017
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00049	0.00050	0.00051
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00026	-0.00023	-0.00019
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	0.00049	0.00049	0.00050
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00026	-0.00023	-0.00019
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00049	0.00049	0.00050
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00025	-0.00022	-0.00017
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00049	0.00050	0.00051
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00026	-0.00023	-0.00019
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00049	0.00049	0.00050
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00042	-0.00039	-0.00035
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00014	0.00014	0.00015
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00040	-0.00037	-0.00033
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00014	0.00015	0.00015
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00042	-0.00040	-0.00036
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00014	0.00014	0.00015
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00047	-0.00047	-0.00046
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00013	0.00014	0.00014

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X3H7R	**(A2 * B0 * B1 * !YN)**	0.00026	0.00026	0.00026
	(A2 * B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(A2 * B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * B1 * !YN)	-0.00049	-0.00049	-0.00049
	(A2 * B0 * !B1 * !YN)	0.00025	0.00025	0.00025
	(A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * !B1 * !YN)	-0.00050	-0.00049	-0.00049
	(A2 * !B0 * B1 * !YN)	0.00027	0.00027	0.00027
	(A2 * !B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(A2 * !B0 * B1 * !YN)	-0.00049	-0.00049	-0.00049
	(A1 * !A2 * B0 * B1 * !YN)	0.00026	0.00026	0.00026
	(A1 * !A2 * B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !YN)	-0.00049	-0.00049	-0.00049
	(A1 * !A2 * B0 * !B1 * !YN)	0.00025	0.00025	0.00025
	(A1 * !A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00050	-0.00049	-0.00049
	(A1 * !A2 * !B0 * B1 * !YN)	0.00026	0.00027	0.00027
	(A1 * !A2 * !B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00049	-0.00049	-0.00049
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00025	0.00026	0.00026
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00049	-0.00049	-0.00049
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00025	0.00025	0.00025
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00049	-0.00049	-0.00049
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00027	0.00027	0.00027
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00003	0.00003	0.00003
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00049	-0.00049	-0.00049
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00041	0.00042	0.00042
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00040	0.00040	0.00040
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00041	0.00042	0.00042
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00047	0.00047	0.00048
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013

OAI33X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OAI33 cell provides the logical inverted AND of two OR groups. The output (Y) is represented by the logic equation:

Truth Table

INPUT						OUTPUT
A0	A1	A2	B0	B1	B2	YN
0	0	0	x	x	x	1
0	x	1	0	0	0	1
0	x	1	0	x	1	0
0	x	1	x	1	x	0
0	x	1	1	x	x	0
x	1	x	0	0	0	1
x	1	x	0	x	1	0
x	1	x	x	1	x	0
x	1	x	1	x	x	0
1	x	x	0	0	0	1
1	x	x	0	x	1	0
1	x	x	x	1	x	0
1	x	x	1	x	x	0

Footprint

Cell Name	Area
OAI33X4H7R	5.60000

Pin Capacitance Information

Cell Name	Pin Cap(pf)						Max Cap(pf)
	A0	A1	A2	B0	B1	B2	YN
OAI33X4H7R	0.00177	0.00173	0.00181	0.00188	0.00183	0.00182	0.04739

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAI33X4H7R	0.00000	0.37165	1.50080

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X4H7R	A0->YN (FR)	0.05917	0.20175	0.60604
	A1->YN (FR)	0.05863	0.20739	0.64147
	A2->YN (FR)	0.04924	0.19925	0.64070
	B0->YN (FR)	0.02991	0.17586	0.62131
	B1->YN (FR)	0.03780	0.18296	0.62085
	B2->YN (FR)	0.04009	0.17936	0.58449

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAI33X4H7R	A0->YN (RF)	0.03017	0.11585	0.38870
	A1->YN (RF)	0.02839	0.11251	0.38477
	A2->YN (RF)	0.02538	0.10799	0.38013
	B0->YN (RF)	0.01919	0.09878	0.37744
	B1->YN (RF)	0.02234	0.10361	0.38232
	B2->YN (RF)	0.02403	0.10709	0.38637

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X4H7R	A0	0.00550	0.00557	0.00590
	A0	-0.00049	-0.00048	-0.00048
	A0	0.00062	0.00063	0.00063
	A0	-0.00006	0.00001	0.00033
	A1	0.00492	0.00501	0.00544
	A1	-0.00035	-0.00034	-0.00030
	A1	0.00062	0.00063	0.00063
	A1	-0.00003	0.00006	0.00048
	A2	0.00427	0.00444	0.00522
	A2	-0.00018	-0.00017	-0.00015
	A2	0.00062	0.00063	0.00063
	A2	-0.00009	0.00007	0.00084
	B0	0.00318	0.00338	0.00432
	B0	-0.00018	-0.00017	-0.00014
	B0	0.00020	0.00021	0.00025
	B0	-0.00024	-0.00002	0.00103
	B1	0.00382	0.00395	0.00453
	B1	-0.00036	-0.00033	-0.00029
	B1	0.00021	0.00021	0.00031
	B1	-0.00006	0.00007	0.00064
	B2	0.00438	0.00449	0.00497
	B2	-0.00049	-0.00048	-0.00048
	B2	0.00020	0.00021	0.00023
	B2	-0.00008	0.00003	0.00050

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAI33X4H7R	A0	-0.00018	-0.00011	0.00026
	A0	0.00078	0.00079	0.00081
	A0	-0.00058	-0.00058	-0.00054
	A0	0.00501	0.00514	0.00544
	A1	-0.00016	-0.00007	0.00030
	A1	0.00059	0.00064	0.00071
	A1	-0.00058	-0.00058	-0.00056
	A1	0.00460	0.00468	0.00498
	A2	-0.00017	-0.00001	0.00051
	A2	0.00044	0.00048	0.00055
	A2	-0.00058	-0.00058	-0.00053
	A2	0.00414	0.00423	0.00464
	B0	-0.00019	0.00001	0.00108
	B0	0.00044	0.00048	0.00049
	B0	-0.00021	-0.00021	-0.00015
	B0	0.00296	0.00312	0.00397
	B1	-0.00017	-0.00001	0.00081
	B1	0.00060	0.00064	0.00069
	B1	-0.00021	-0.00021	-0.00017
	B1	0.00334	0.00354	0.00427
	B2	-0.00019	-0.00005	0.00078
	B2	0.00078	0.00079	0.00080
	B2	-0.00021	-0.00021	-0.00016
	B2	0.00375	0.00399	0.00473

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7R	**(A1 * A2 * B0 * !YN)**	-0.00033	-0.00030	-0.00025
	(A1 * A2 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(A1 * A2 * B0 * !YN)	0.00056	0.00056	0.00057
	(A1 * A2 * !B0 * B1 * !YN)	-0.00033	-0.00030	-0.00025
	(A1 * A2 * !B0 * B1 * !YN)	-0.00005	-0.00004	-0.00004
	(A1 * A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00002
	(A1 * A2 * !B0 * B1 * !YN)	0.00056	0.00056	0.00057
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00033	-0.00030	-0.00025
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00002
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00056	0.00056	0.00057
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00034	-0.00031	-0.00026
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00005	-0.00004	-0.00004
	(A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	0.00055	0.00056	0.00056
	(A1 * !A2 * B0 * !YN)	-0.00034	-0.00030	-0.00025
	(A1 * !A2 * B0 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * B0 * !YN)	0.00001	0.00001	0.00002
	(A1 * !A2 * B0 * !YN)	0.00056	0.00056	0.00056
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00034	-0.00030	-0.00025
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	0.00056	0.00056	0.00056
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00034	-0.00030	-0.00025
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00056	0.00056	0.00057
	(!A1 * A2 * B0 * !YN)	-0.00032	-0.00028	-0.00022
	(!A1 * A2 * B0 * !YN)	-0.00005	-0.00004	-0.00004
	(!A1 * A2 * B0 * !YN)	0.00000	0.00001	0.00002
	(!A1 * A2 * B0 * !YN)	0.00056	0.00056	0.00057
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00032	-0.00028	-0.00022
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00005	-0.00004	-0.00004
	(!A1 * A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * B1 * !YN)	0.00056	0.00056	0.00057
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00032	-0.00028	-0.00022
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00005	-0.00004	-0.00004
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00056	0.00056	0.00057
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00032	-0.00028	-0.00023
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00005	-0.00005	-0.00004
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00056	0.00056	0.00056
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00041	-0.00041	-0.00041
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00049	0.00050	0.00050

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7R	**(A1 * A2 * B0 * !YN)**	0.00033	0.00033	0.00033
	(A1 * A2 * B0 * !YN)	0.00004	0.00004	0.00004
	(A1 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * A2 * B0 * !YN)	-0.00056	-0.00056	-0.00056
	(A1 * A2 * !B0 * B1 * !YN)	0.00033	0.00033	0.00033
	(A1 * A2 * !B0 * B1 * !YN)	0.00004	0.00004	0.00005
	(A1 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !B0 * B1 * !YN)	-0.00056	-0.00056	-0.00056
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00033	0.00033	0.00033
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00004	0.00004	0.00004
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00056	-0.00056	-0.00056
	(A1 * !B0 * !B1 * !B2 * YN)	0.00033	0.00034	0.00034
	(A1 * !B0 * !B1 * !B2 * YN)	0.00004	0.00004	0.00005
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00055	-0.00055	-0.00055
	(A1 * !A2 * B0 * !YN)	0.00034	0.00034	0.00035
	(A1 * !A2 * B0 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !YN)	-0.00056	-0.00056	-0.00055
	(A1 * !A2 * !B0 * B1 * !YN)	0.00034	0.00034	0.00035
	(A1 * !A2 * !B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00056	-0.00056	-0.00055
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00034	0.00034	0.00035
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00056	-0.00056	-0.00055
	(!A1 * A2 * B0 * !YN)	0.00032	0.00032	0.00032
	(!A1 * A2 * B0 * !YN)	0.00004	0.00004	0.00005
	(!A1 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * A2 * B0 * !YN)	-0.00056	-0.00056	-0.00055
	(!A1 * A2 * !B0 * B1 * !YN)	0.00032	0.00032	0.00032
	(!A1 * A2 * !B0 * B1 * !YN)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * B1 * !YN)	-0.00056	-0.00056	-0.00056
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00032	0.00032	0.00032
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	0.00004	0.00005	0.00005
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * B2 * !YN)	-0.00056	-0.00056	-0.00055
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00032	0.00032	0.00032
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	0.00005	0.00005	0.00005
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * A2 * !B0 * !B1 * !B2 * YN)	-0.00056	-0.00056	-0.00055
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00042	0.00042	0.00043
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00002	0.00003
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00048	-0.00045	-0.00039

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7R	**(A0 * A2 * B0 * !YN)**	-0.00000	-0.00000	-0.00000
	(A0 * A2 * B0 * !YN)	-0.00016	-0.00015	-0.00015
	(A0 * A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * B0 * !YN)	0.00053	0.00054	0.00054
	(A0 * A2 * !B0 * B1 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * B1 * !YN)	-0.00016	-0.00015	-0.00015
	(A0 * A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * A2 * !B0 * B1 * !YN)	0.00053	0.00054	0.00054
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00016	-0.00015	-0.00015
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00002
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00053	0.00054	0.00054
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00016	-0.00016	-0.00016
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00050	0.00051	0.00051
	(A0 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * !A2 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * !A2 * B0 * !YN)	0.00052	0.00053	0.00053
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * !A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * B1 * !YN)	0.00052	0.00053	0.00053
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00053	0.00053	0.00053
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00039	-0.00035	-0.00031
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00005	-0.00004	-0.00004
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00048	0.00048	0.00049
	(!A0 * A2 * B0 * !YN)	-0.00041	-0.00036	-0.00030
	(!A0 * A2 * B0 * !YN)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * B0 * !YN)	0.00048	0.00050	0.00053
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00041	-0.00036	-0.00030
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * B1 * !YN)	0.00048	0.00050	0.00053
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00041	-0.00036	-0.00030
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00004	-0.00003	-0.00003
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00048	0.00050	0.00054
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00040	-0.00037	-0.00032
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00004	-0.00004	-0.00003
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00048	0.00048	0.00048
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00047	-0.00047	-0.00047
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00042	0.00043	0.00043

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7R	**(A0 * A2 * B0 * !YN)**	0.00000	0.00000	0.00000
	(A0 * A2 * B0 * !YN)	0.00015	0.00015	0.00016
	(A0 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * B0 * !YN)	-0.00053	-0.00053	-0.00052
	(A0 * A2 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * B1 * !YN)	0.00015	0.00015	0.00016
	(A0 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * B1 * !YN)	-0.00053	-0.00053	-0.00052
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00015	0.00015	0.00016
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00053	-0.00053	-0.00053
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00002	0.00002	0.00002
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00016	0.00016	0.00016
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00051	-0.00051	-0.00050
	(A0 * !A2 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * B0 * !YN)	0.00011	0.00011	0.00011
	(A0 * !A2 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * !A2 * B0 * !YN)	-0.00053	-0.00052	-0.00052
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * B1 * !YN)	0.00011	0.00011	0.00011
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * B1 * !YN)	-0.00053	-0.00052	-0.00052
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	0.00011	0.00011	0.00012
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * B2 * !YN)	-0.00053	-0.00052	-0.00052
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00038	0.00039	0.00039
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00004	0.00005	0.00005
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00048	-0.00047	-0.00046
	(!A0 * A2 * B0 * !YN)	0.00041	0.00041	0.00041
	(!A0 * A2 * B0 * !YN)	0.00003	0.00003	0.00004
	(!A0 * A2 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * B0 * !YN)	-0.00048	-0.00048	-0.00047
	(!A0 * A2 * !B0 * B1 * !YN)	0.00041	0.00041	0.00041
	(!A0 * A2 * !B0 * B1 * !YN)	0.00003	0.00003	0.00004
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A2 * !B0 * B1 * !YN)	-0.00048	-0.00048	-0.00048
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00041	0.00041	0.00041
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	0.00003	0.00003	0.00004
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * B2 * !YN)	-0.00048	-0.00048	-0.00048
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00040	0.00040	0.00040
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	0.00003	0.00004	0.00004
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A2 * !B0 * !B1 * !B2 * YN)	-0.00048	-0.00048	-0.00047
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00047	0.00048	0.00049
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	0.00001	0.00002	0.00002
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A2 * !B0 * !B1 * !B2 * YN)	-0.00041	-0.00038	-0.00033

Passive power(pJ) for A2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7R	**(A1 * B0 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B0 * !YN)	-0.00007	-0.00007	-0.00007
	(A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !YN)	0.00066	0.00067	0.00067
	(A1 * !B0 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !YN)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * B1 * !YN)	0.00066	0.00067	0.00067
	(A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A1 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00002
	(A1 * !B0 * !B1 * B2 * !YN)	0.00066	0.00067	0.00067
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00040	-0.00036	-0.00031
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00005	-0.00005	-0.00004
	(A1 * !B0 * !B1 * !B2 * YN)	0.00000	0.00001	0.00002
	(A1 * !B0 * !B1 * !B2 * YN)	0.00047	0.00048	0.00048
	(A0 * !A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * B0 * !YN)	0.00066	0.00066	0.00067
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !B0 * B1 * !YN)	0.00066	0.00066	0.00067
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00007	-0.00007	-0.00006
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00066	0.00066	0.00067
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00038	-0.00033	-0.00027
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00006	-0.00004	-0.00003
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00047	0.00048	0.00048
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00047	-0.00047	-0.00047
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00042	0.00042	0.00042

Passive power(pJ) for A2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7R	**(A1 * B0 * !YN)**	-0.00000	0.00000	0.00000
	(A1 * B0 * !YN)	0.00007	0.00007	0.00007
	(A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !YN)	-0.00067	-0.00066	-0.00066
	(A1 * !B0 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !B0 * B1 * !YN)	0.00007	0.00007	0.00007
	(A1 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * B1 * !YN)	-0.00067	-0.00066	-0.00066
	(A1 * !B0 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !B1 * B2 * !YN)	0.00007	0.00007	0.00007
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !B1 * B2 * !YN)	-0.00067	-0.00066	-0.00066
	(A1 * !B0 * !B1 * !B2 * YN)	0.00039	0.00040	0.00040
	(A1 * !B0 * !B1 * !B2 * YN)	0.00004	0.00005	0.00005
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !B1 * !B2 * YN)	-0.00047	-0.00047	-0.00047
	(A0 * !A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * B0 * !YN)	0.00007	0.00007	0.00007
	(A0 * !A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * B0 * !YN)	-0.00066	-0.00066	-0.00066
	(A0 * !A1 * !B0 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * B1 * !YN)	0.00007	0.00007	0.00007
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * B1 * !YN)	-0.00066	-0.00066	-0.00066
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	0.00006	0.00007	0.00007
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * B2 * !YN)	-0.00066	-0.00066	-0.00065
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00038	0.00038	0.00038
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00003	0.00005	0.00006
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00047	-0.00047	-0.00047
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00048	0.00048	0.00049
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !B0 * !B1 * !B2 * YN)	-0.00041	-0.00038	-0.00033

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7R	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	-0.00007	-0.00007	-0.00007
	(A2 * B1 * !YN)	0.00001	0.00001	0.00002
	(A2 * B1 * !YN)	0.00069	0.00069	0.00069
	(A2 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00002
	(A2 * !B1 * B2 * !YN)	0.00069	0.00069	0.00069
	(A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	-0.00007	-0.00007	-0.00007
	(A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B1 * !YN)	0.00068	0.00069	0.00069
	(A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00007	-0.00006	-0.00006
	(A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	0.00068	0.00069	0.00069
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * !A2 * B1 * !YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !A2 * B1 * !YN)	0.00069	0.00069	0.00069
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00069	0.00069	0.00069
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00056	-0.00052	-0.00047
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !A2 * B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * B1 * YN)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00055	-0.00049	-0.00042
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00064	-0.00063	-0.00062
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7R	**(A2 * B1 * !YN)**	-0.00000	0.00000	0.00000
	(A2 * B1 * !YN)	0.00007	0.00007	0.00007
	(A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B1 * !YN)	-0.00069	-0.00069	-0.00068
	(A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * !B1 * B2 * !YN)	0.00007	0.00007	0.00007
	(A2 * !B1 * B2 * !YN)	-0.00002	-0.00001	-0.00001
	(A2 * !B1 * B2 * !YN)	-0.00069	-0.00069	-0.00069
	(A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B1 * !YN)	0.00007	0.00007	0.00007
	(A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B1 * !YN)	-0.00069	-0.00069	-0.00068
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A1 * !A2 * !B1 * B2 * !YN)	0.00006	0.00007	0.00007
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B1 * B2 * !YN)	-0.00069	-0.00069	-0.00068
	(A0 * !A1 * !A2 * B1 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B1 * !YN)	0.00007	0.00007	0.00007
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B1 * !YN)	-0.00069	-0.00069	-0.00069
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	0.00007	0.00007	0.00007
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00002	-0.00001	-0.00000
	(A0 * !A1 * !A2 * !B1 * B2 * !YN)	-0.00069	-0.00069	-0.00068
	(!A0 * !A1 * !A2 * B1 * YN)	0.00056	0.00056	0.00056
	(!A0 * !A1 * !A2 * B1 * YN)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B1 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00054	0.00054	0.00055
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * B2 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00063	0.00063	0.00064
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B1 * !B2 * YN)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for B1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

	(A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A2 * B0 * B2 * !YN)	-0.00016	-0.00015	-0.00015
	(A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * B2 * !YN)	0.00055	0.00056	0.00056
	(A2 * B0 * !B2 * !YN)	-0.00041	-0.00037	-0.00030
	(A2 * B0 * !B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !B2 * !YN)	0.00051	0.00052	0.00056
	(A2 * !B0 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * !B0 * B2 * !YN)	-0.00011	-0.00011	-0.00011
	(A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00002
	(A2 * !B0 * B2 * !YN)	0.00055	0.00055	0.00055
	(A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	-0.00016	-0.00015	-0.00015
	(A1 * !A2 * B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * B2 * !YN)	0.00055	0.00056	0.00056
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00041	-0.00037	-0.00030
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	0.00050	0.00052	0.00056
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00011	-0.00011	-0.00011
	(A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	0.00055	0.00055	0.00055
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00000	-0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00016	-0.00015	-0.00015
OAI33X4H7R	**(A0 * !A1 * !A2 * B0 * B2 * !YN)**	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00055	0.00056	0.00056
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00041	-0.00037	-0.00030
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00050	0.00052	0.00056
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00011	-0.00011	-0.00011
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00055	0.00055	0.00055
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00011	0.00011	0.00011
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00058	-0.00055	-0.00050
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00004	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00005	0.00006	0.00006
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00008	0.00009	0.00009
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00057	-0.00053	-0.00048
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00008	0.00008	0.00009
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00064	-0.00064	-0.00063
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00007	0.00008	0.00008

Passive power(pJ) for B1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

	(A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A2 * B0 * B2 * !YN)	0.00015	0.00015	0.00016
	(A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * B2 * !YN)	-0.00055	-0.00055	-0.00055
	(A2 * B0 * !B2 * !YN)	0.00041	0.00041	0.00041
	(A2 * B0 * !B2 * !YN)	0.00003	0.00003	0.00004
	(A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * !B2 * !YN)	-0.00051	-0.00050	-0.00049
	(A2 * !B0 * B2 * !YN)	-0.00000	0.00000	0.00000
	(A2 * !B0 * B2 * !YN)	0.00011	0.00011	0.00011
	(A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B0 * B2 * !YN)	-0.00055	-0.00055	-0.00054
	(A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * B0 * B2 * !YN)	0.00015	0.00015	0.00016
	(A1 * !A2 * B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B2 * !YN)	-0.00055	-0.00055	-0.00055
	(A1 * !A2 * B0 * !B2 * !YN)	0.00041	0.00041	0.00042
	(A1 * !A2 * B0 * !B2 * !YN)	0.00003	0.00003	0.00004
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B2 * !YN)	-0.00051	-0.00050	-0.00050
	(A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A1 * !A2 * !B0 * B2 * !YN)	0.00011	0.00011	0.00012
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B2 * !YN)	-0.00055	-0.00055	-0.00055
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	0.00015	0.00015	0.00016
OAI33X4H7R	**(A0 * !A1 * !A2 * B0 * B2 * !YN)**	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * B2 * !YN)	-0.00055	-0.00055	-0.00054
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00041	0.00041	0.00042
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	0.00003	0.00003	0.00004
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !B2 * !YN)	-0.00050	-0.00050	-0.00049
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00000	0.00000	0.00000
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	0.00011	0.00011	0.00012
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B2 * !YN)	-0.00055	-0.00055	-0.00054
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !A2 * B0 * B2 * YN)	-0.00011	-0.00011	-0.00010
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00057	0.00058	0.00058
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	0.00004	0.00004	0.00004
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00006	-0.00006	-0.00005
	(!A0 * !A1 * !A2 * B0 * !B2 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00056	0.00056	0.00057
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B0 * B2 * YN)	-0.00008	-0.00008	-0.00008
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00064	0.00064	0.00065
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	0.00000	0.00001	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B0 * !B2 * YN)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for B2 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7R	**(A2 * B0 * B1 * !YN)**	-0.00033	-0.00030	-0.00025
	(A2 * B0 * B1 * !YN)	-0.00005	-0.00004	-0.00004
	(A2 * B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * B1 * !YN)	0.00056	0.00056	0.00056
	(A2 * B0 * !B1 * !YN)	-0.00032	-0.00028	-0.00022
	(A2 * B0 * !B1 * !YN)	-0.00005	-0.00004	-0.00004
	(A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * B0 * !B1 * !YN)	0.00056	0.00056	0.00057
	(A2 * !B0 * B1 * !YN)	-0.00034	-0.00030	-0.00025
	(A2 * !B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A2 * !B0 * B1 * !YN)	0.00056	0.00056	0.00056
	(A1 * !A2 * B0 * B1 * !YN)	-0.00033	-0.00030	-0.00025
	(A1 * !A2 * B0 * B1 * !YN)	-0.00005	-0.00004	-0.00004
	(A1 * !A2 * B0 * B1 * !YN)	0.00001	0.00001	0.00002
	(A1 * !A2 * B0 * B1 * !YN)	0.00056	0.00056	0.00056
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00032	-0.00028	-0.00022
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00005	-0.00005	-0.00004
	(A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	0.00056	0.00056	0.00057
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00034	-0.00030	-0.00025
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	0.00056	0.00056	0.00057
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00033	-0.00030	-0.00025
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00005	-0.00004	-0.00004
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00056	0.00056	0.00056
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00032	-0.00028	-0.00022
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00005	-0.00005	-0.00004
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00001	0.00001	0.00002
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00056	0.00056	0.00057
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00034	-0.00030	-0.00025
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00001	0.00001	0.00001
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00056	0.00056	0.00056
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00050	-0.00047	-0.00042
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00014	0.00014	0.00015
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00048	-0.00044	-0.00039
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00005	-0.00005	-0.00004
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00014	0.00014	0.00015
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00050	-0.00047	-0.00042
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00005	-0.00004	-0.00004
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00014	0.00014	0.00014
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00057	-0.00056	-0.00055
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00006	0.00007	0.00007
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00013	0.00014	0.00014

Passive power(pJ) for B2 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

OAI33X4H7R	**(A2 * B0 * B1 * !YN)**	0.00033	0.00033	0.00033
	(A2 * B0 * B1 * !YN)	0.00004	0.00004	0.00005
	(A2 * B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * B0 * B1 * !YN)	-0.00056	-0.00056	-0.00055
	(A2 * B0 * !B1 * !YN)	0.00032	0.00032	0.00032
	(A2 * B0 * !B1 * !YN)	0.00004	0.00005	0.00005
	(A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	0.00001
	(A2 * B0 * !B1 * !YN)	-0.00056	-0.00056	-0.00056
	(A2 * !B0 * B1 * !YN)	0.00034	0.00034	0.00035
	(A2 * !B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A2 * !B0 * B1 * !YN)	-0.00056	-0.00056	-0.00055
	(A1 * !A2 * B0 * B1 * !YN)	0.00033	0.00033	0.00033
	(A1 * !A2 * B0 * B1 * !YN)	0.00004	0.00004	0.00005
	(A1 * !A2 * B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * B1 * !YN)	-0.00056	-0.00056	-0.00055
	(A1 * !A2 * B0 * !B1 * !YN)	0.00032	0.00032	0.00032
	(A1 * !A2 * B0 * !B1 * !YN)	0.00004	0.00005	0.00005
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * B0 * !B1 * !YN)	-0.00056	-0.00056	-0.00056
	(A1 * !A2 * !B0 * B1 * !YN)	0.00034	0.00034	0.00035
	(A1 * !A2 * !B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !A2 * !B0 * B1 * !YN)	-0.00056	-0.00056	-0.00055
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00033	0.00033	0.00033
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	0.00004	0.00004	0.00005
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * B1 * !YN)	-0.00056	-0.00056	-0.00055
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00032	0.00032	0.00032
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	0.00004	0.00005	0.00005
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * B0 * !B1 * !YN)	-0.00056	-0.00056	-0.00055
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00034	0.00034	0.00035
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	0.00004	0.00004	0.00004
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * !A1 * !A2 * !B0 * B1 * !YN)	-0.00056	-0.00056	-0.00055
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00049	0.00050	0.00050
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B0 * B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00048	0.00048	0.00048
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	0.00004	0.00005	0.00005
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * B0 * !B1 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00049	0.00050	0.00050
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	0.00004	0.00004	0.00005
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B0 * B1 * YN)	-0.00014	-0.00014	-0.00013
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00056	0.00057	0.00057
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !A2 * !B0 * !B1 * YN)	-0.00013	-0.00013	-0.00013

OAO211X0P5H7R

Cell Description

OAO211 (Y = ((A0 + A1) • B0) + C0)

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X0P5H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X0P5H7R	0.00067	0.00064	0.00067	0.00073	0.04257

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X0P5H7R	0.00000	0.21932	0.35147

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X0P5H7R	A0->Y (RR)	0.04926	0.19345	0.54199
	A1->Y (RR)	0.05052	0.19686	0.55112
	B0->Y (RR)	0.04644	0.19044	0.53805
	C0->Y (RR)	0.03253	0.17172	0.50986

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X0P5H7R	A0->Y (FF)	0.08598	0.21435	0.51986
	A1->Y (FF)	0.08743	0.20964	0.50155
	B0->Y (FF)	0.05533	0.17454	0.46230
	C0->Y (FF)	0.07524	0.20383	0.51221

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X0P5H7R	A0	0.00036	0.00041	0.00055
	A0	0.00006	0.00006	0.00008
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00131	0.00138	0.00150
	A1	0.00036	0.00042	0.00058
	A1	0.00010	0.00010	0.00010
	A1	-0.00007	-0.00007	-0.00006
	A1	0.00147	0.00153	0.00165
	B0	0.00036	0.00045	0.00074
	B0	0.00010	0.00010	0.00010
	B0	-0.00002	-0.00002	-0.00001
	B0	0.00121	0.00130	0.00156
	C0	0.00034	0.00046	0.00083
	C0	-0.00000	0.00000	0.00001
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00116	0.00126	0.00158

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X0P5H7R	A0	0.00147	0.00151	0.00166
	A0	-0.00007	-0.00006	-0.00006
	A0	0.00007	0.00007	0.00007
	A0	0.00049	0.00054	0.00068
	A1	0.00157	0.00161	0.00172
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00007	0.00007	0.00007
	A1	0.00044	0.00048	0.00059
	B0	0.00133	0.00139	0.00158
	B0	-0.00006	-0.00006	-0.00006
	B0	0.00001	0.00002	0.00003
	B0	0.00042	0.00049	0.00071
	C0	0.00121	0.00130	0.00159
	C0	0.00000	0.00000	0.00001
	C0	0.00007	0.00007	0.00007
	C0	0.00038	0.00050	0.00089

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7R	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00019	0.00019	0.00020
	(A1 * !B0 * C0 * Y)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !C0 * !Y)	-0.00011	-0.00011	-0.00010
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00018	0.00019	0.00020
	(!A1 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7R	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00019
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * !C0 * !Y)	0.00012	0.00013	0.00013
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7R	(A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00024	0.00024	0.00025
	(A0 * B0 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7R	(A0 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !C0 * Y)	0.00008	0.00008	0.00008
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !B0 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * !C0 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7R	(A0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * C0 * Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(!A0 * A1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	0.00018	0.00018	0.00019
	(!A0 * !A1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7R	(A0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !A1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00008	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7R	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P5H7R	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00028	-0.00027	-0.00027

OAO211X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OAO211 (Y = ((A0 + A1) • B0) + C0)

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X0P7H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X0P7H7R	0.00068	0.00064	0.00066	0.00073	0.04829

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X0P7H7R	0.00000	0.23365	0.35842

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X0P7H7R	A0->Y (RR)	0.04908	0.19421	0.54458
	A1->Y (RR)	0.05009	0.19732	0.55251
	B0->Y (RR)	0.04592	0.19092	0.54043
	C0->Y (RR)	0.03144	0.17117	0.51026

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X0P7H7R	A0->Y (FF)	0.08707	0.21656	0.52296
	A1->Y (FF)	0.08820	0.21154	0.50447
	B0->Y (FF)	0.05535	0.17554	0.46439
	C0->Y (FF)	0.07450	0.20395	0.51312

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X0P7H7R	A0	0.00038	0.00044	0.00056
	A0	0.00005	0.00006	0.00006
	A0	-0.00007	-0.00007	-0.00005
	A0	0.00135	0.00141	0.00153
	A1	0.00038	0.00044	0.00058
	A1	0.00010	0.00010	0.00010
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00149	0.00155	0.00167
	B0	0.00038	0.00048	0.00076
	B0	0.00010	0.00010	0.00010
	B0	-0.00002	-0.00002	0.00000
	B0	0.00124	0.00133	0.00159
	C0	0.00035	0.00047	0.00083
	C0	-0.00000	-0.00000	0.00000
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00116	0.00127	0.00160

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X0P7H7R	A0	0.00152	0.00157	0.00171
	A0	-0.00006	-0.00006	-0.00005
	A0	0.00007	0.00007	0.00007
	A0	0.00054	0.00059	0.00074
	A1	0.00162	0.00166	0.00177
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00007	0.00007	0.00007
	A1	0.00048	0.00053	0.00064
	B0	0.00137	0.00144	0.00162
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00001	0.00002	0.00002
	B0	0.00047	0.00053	0.00073
	C0	0.00123	0.00132	0.00163
	C0	0.00000	0.00000	0.00001
	C0	0.00007	0.00007	0.00007
	C0	0.00041	0.00053	0.00091

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7R	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00018	0.00019	0.00020
	(!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7R	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(A1 * !B0 * C0 * Y)	0.00011	0.00012	0.00012
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(A1 * !B0 * !C0 * !Y)	0.00011	0.00012	0.00012
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00014
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7R	(A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00024	0.00024	0.00024
	(A0 * B0 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7R	(A0 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !C0 * Y)	0.00008	0.00008	0.00008
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * C0 * Y)	0.00007	0.00008	0.00008
	(!A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !B0 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * !C0 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7R	(A0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * C0 * Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !C0 * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7R	(A0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * C0 * Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !A1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !C0 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7R	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X0P7H7R	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00028	-0.00028	-0.00027

OAO211X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OAO211 (Y = ((A0 + A1) • B0) + C0)

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X1H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X1H7R	0.00068	0.00064	0.00066	0.00073	0.05764

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X1H7R	0.00000	0.25373	0.36938

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X1H7R	A0->Y (RR)	0.04831	0.19445	0.54695
	A1->Y (RR)	0.04934	0.19757	0.55438
	B0->Y (RR)	0.04518	0.19123	0.54258
	C0->Y (RR)	0.03033	0.17109	0.51186

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X1H7R	A0->Y (FF)	0.08722	0.21977	0.53220
	A1->Y (FF)	0.08835	0.21466	0.51356
	B0->Y (FF)	0.05525	0.17821	0.47293
	C0->Y (FF)	0.07470	0.20727	0.52273

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X1H7R	A0	0.00042	0.00047	0.00060
	A0	0.00005	0.00005	0.00005
	A0	-0.00007	-0.00007	-0.00006
	A0	0.00138	0.00144	0.00157
	A1	0.00042	0.00048	0.00063
	A1	0.00009	0.00009	0.00009
	A1	-0.00007	-0.00007	-0.00006
	A1	0.00152	0.00158	0.00171
	B0	0.00042	0.00051	0.00081
	B0	0.00009	0.00009	0.00009
	B0	-0.00001	-0.00001	-0.00001
	B0	0.00126	0.00136	0.00163
	C0	0.00039	0.00051	0.00087
	C0	-0.00001	-0.00001	0.00000
	C0	-0.00001	-0.00001	-0.00001
	C0	0.00119	0.00130	0.00165

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X1H7R	A0	0.00155	0.00160	0.00176
	A0	-0.00005	-0.00005	-0.00004
	A0	0.00006	0.00007	0.00007
	A0	0.00058	0.00063	0.00080
	A1	0.00165	0.00169	0.00182
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00006	0.00007	0.00007
	A1	0.00052	0.00057	0.00070
	B0	0.00140	0.00147	0.00166
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00001	0.00001	0.00002
	B0	0.00050	0.00057	0.00078
	C0	0.00126	0.00135	0.00168
	C0	0.00000	0.00001	0.00003
	C0	0.00006	0.00006	0.00007
	C0	0.00044	0.00057	0.00097

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7R	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00018	0.00019	0.00020
	(!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7R	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(A1 * !B0 * C0 * Y)	0.00011	0.00012	0.00012
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(A1 * !B0 * !C0 * !Y)	0.00011	0.00012	0.00012
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00019	-0.00018	-0.00018
	(!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00014
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7R	(A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * Y)	0.00024	0.00024	0.00024
	(A0 * B0 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7R	(A0 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !C0 * Y)	0.00008	0.00008	0.00008
	(A0 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * C0 * Y)	0.00007	0.00008	0.00008
	(!A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !B0 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * !C0 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7R	(A0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * C0 * Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(!A0 * A1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !C0 * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7R	(A0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * C0 * Y)	0.00012	0.00012	0.00013
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !A1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7R	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1H7R	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00028	-0.00028	-0.00027

OAO211X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OAO211 (Y = ((A0 + A1) • B0) + C0)

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X1P4H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X1P4H7R	0.00068	0.00064	0.00066	0.00074	0.06579

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X1P4H7R	0.00000	0.27322	0.37894

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X1P4H7R	A0->Y (RR)	0.04807	0.19497	0.54889
	A1->Y (RR)	0.04909	0.19806	0.55648
	B0->Y (RR)	0.04496	0.19187	0.54424
	C0->Y (RR)	0.02970	0.17123	0.51337

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X1P4H7R	A0->Y (FF)	0.08756	0.22115	0.53539
	A1->Y (FF)	0.08869	0.21593	0.51566
	B0->Y (FF)	0.05534	0.17910	0.47481
	C0->Y (FF)	0.07508	0.20867	0.52540

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X1P4H7R	A0	0.00045	0.00051	0.00068
	A0	0.00005	0.00005	0.00005
	A0	-0.00006	-0.00006	-0.00004
	A0	0.00140	0.00146	0.00160
	A1	0.00045	0.00051	0.00066
	A1	0.00009	0.00009	0.00009
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00155	0.00160	0.00175
	B0	0.00045	0.00055	0.00086
	B0	0.00009	0.00009	0.00009
	B0	-0.00001	-0.00001	0.00002
	B0	0.00129	0.00138	0.00167
	C0	0.00042	0.00054	0.00092
	C0	-0.00002	-0.00001	0.00001
	C0	-0.00001	-0.00001	-0.00000
	C0	0.00122	0.00133	0.00169

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X1P4H7R	A0	0.00158	0.00163	0.00182
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00006	0.00006	0.00006
	A0	0.00062	0.00067	0.00086
	A1	0.00168	0.00172	0.00187
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00006	0.00006	0.00006
	A1	0.00056	0.00061	0.00075
	B0	0.00143	0.00150	0.00170
	B0	-0.00005	-0.00005	-0.00005
	B0	0.00000	0.00001	0.00001
	B0	0.00054	0.00061	0.00083
	C0	0.00129	0.00138	0.00174
	C0	0.00001	0.00001	0.00003
	C0	0.00006	0.00006	0.00006
	C0	0.00048	0.00060	0.00102

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7R	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	0.00018	0.00018	0.00018
	(!A1 * B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * Y)	0.00018	0.00019	0.00020
	(!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7R	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00019
	(A1 * !B0 * C0 * Y)	0.00011	0.00012	0.00012
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(A1 * !B0 * !C0 * !Y)	0.00011	0.00012	0.00012
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00014
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7R	(A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00024	0.00024	0.00024
	(A0 * B0 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7R	(A0 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !C0 * Y)	0.00008	0.00008	0.00009
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * C0 * Y)	0.00007	0.00008	0.00008
	(!A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00025	-0.00024	-0.00024
	(!A0 * !B0 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * !C0 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * !C0 * !Y)	-0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7R	(A0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * C0 * Y)	0.00021	0.00022	0.00022
	(!A0 * A1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * Y)	0.00021	0.00021	0.00022
	(!A0 * !A1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !C0 * !Y)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !C0 * !Y)	0.00008	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7R	(A0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * A1 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * C0 * Y)	0.00012	0.00013	0.00013
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00018	-0.00017	-0.00016
	(!A0 * !A1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00008	-0.00008	-0.00008

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7R	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X1P4H7R	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00028	-0.00028	-0.00027

OAO211X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OAO211 (Y = ((A0 + A1) • B0) + C0)

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X2H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X2H7R	0.00068	0.00064	0.00067	0.00074	0.07742

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X2H7R	0.00000	0.30345	0.39241

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X2H7R	A0->Y (RR)	0.04810	0.19609	0.55285
	A1->Y (RR)	0.04911	0.19912	0.55932
	B0->Y (RR)	0.04509	0.19321	0.54792
	C0->Y (RR)	0.02914	0.17180	0.51619

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X2H7R	A0->Y (FF)	0.08825	0.22209	0.53478
	A1->Y (FF)	0.08937	0.21670	0.51441
	B0->Y (FF)	0.05585	0.17951	0.47351
	C0->Y (FF)	0.07569	0.20958	0.52482

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X2H7R	A0	0.00049	0.00056	0.00072
	A0	0.00004	0.00004	0.00004
	A0	-0.00006	-0.00006	-0.00002
	A0	0.00144	0.00150	0.00166
	A1	0.00050	0.00056	0.00073
	A1	0.00008	0.00008	0.00008
	A1	-0.00006	-0.00006	-0.00006
	A1	0.00156	0.00164	0.00181
	B0	0.00049	0.00060	0.00093
	B0	0.00008	0.00008	0.00008
	B0	-0.00000	-0.00000	-0.00000
	B0	0.00133	0.00142	0.00174
	C0	0.00047	0.00059	0.00100
	C0	-0.00002	-0.00002	0.00005
	C0	-0.00000	-0.00000	0.00001
	C0	0.00126	0.00137	0.00177

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X2H7R	A0	0.00163	0.00168	0.00190
	A0	-0.00004	-0.00004	-0.00004
	A0	0.00006	0.00006	0.00006
	A0	0.00068	0.00073	0.00095
	A1	0.00173	0.00177	0.00194
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00006	0.00006	0.00006
	A1	0.00062	0.00066	0.00084
	B0	0.00148	0.00155	0.00176
	B0	-0.00004	-0.00004	-0.00004
	B0	0.00000	0.00001	0.00001
	B0	0.00059	0.00066	0.00091
	C0	0.00134	0.00143	0.00183
	C0	0.00002	0.00002	0.00004
	C0	0.00006	0.00006	0.00006
	C0	0.00053	0.00065	0.00110

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7R	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00003	-0.00003	-0.00002
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(A1 * !B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !C0 * !Y)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00017	0.00018	0.00018
	(!A1 * B0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A1 * B0 * C0 * Y)	0.00018	0.00019	0.00020
	(!A1 * !B0 * C0 * Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * !Y)	-0.00013	-0.00013	-0.00013
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00016

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7R	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00002	0.00003	0.00003
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00018	-0.00018	-0.00017
	(A1 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00018	-0.00018	-0.00017
	(!A1 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(!A1 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * Y)	0.00013	0.00013	0.00013
	(!A1 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * !C0 * !Y)	0.00013	0.00013	0.00014
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00016	-0.00015	-0.00013

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7R	(A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * Y)	0.00024	0.00024	0.00024
	(A0 * B0 * !C0 * Y)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * Y)	0.00024	0.00024	0.00025
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00008	-0.00007	-0.00007
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00024	0.00024	0.00024
	(!A0 * B0 * C0 * Y)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * C0 * Y)	0.00025	0.00025	0.00025
	(!A0 * !B0 * C0 * Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !C0 * !Y)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00022	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7R	(A0 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !C0 * Y)	0.00008	0.00008	0.00009
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00008	0.00008	0.00008
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * C0 * Y)	0.00008	0.00008	0.00008
	(!A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00025	-0.00025	-0.00024
	(!A0 * !B0 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * !C0 * !Y)	0.00009	0.00010	0.00010
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7R	(A0 * C0 * Y)	-0.00010	-0.00008	-0.00006
	(A0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * Y)	0.00000	0.00000	0.00000
	(A0 * C0 * Y)	0.00022	0.00022	0.00023
	(!A0 * A1 * C0 * Y)	-0.00009	-0.00008	-0.00006
	(!A0 * A1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * A1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * A1 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	0.00019	0.00019	0.00019
	(!A0 * !A1 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00002	0.00002	0.00003
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00008	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7R	(A0 * C0 * Y)	0.00010	0.00010	0.00010
	(A0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A0 * A1 * C0 * Y)	0.00009	0.00009	0.00009
	(!A0 * A1 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00022	-0.00021	-0.00021
	(!A0 * !A1 * C0 * Y)	0.00012	0.00012	0.00013
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00019	-0.00018	-0.00016
	(!A0 * !A1 * !C0 * !Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00008	-0.00008	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7R	(A0 * B0 * Y)	-0.00000	-0.00000	0.00000
	(A0 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00028	0.00028	0.00028
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X2H7R	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00028	-0.00028	-0.00028
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00028	-0.00028	-0.00028

OAO211X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OAO211 (Y = ((A0 + A1) • B0) + C0)

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X3H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X3H7R	0.00075	0.00072	0.00076	0.00084	0.12048

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X3H7R	0.00000	0.44939	0.52161

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X3H7R	A0->Y (RR)	0.04605	0.19569	0.55573
	A1->Y (RR)	0.04758	0.19919	0.56293
	B0->Y (RR)	0.04367	0.19349	0.55235
	C0->Y (RR)	0.02775	0.17182	0.51864

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X3H7R	A0->Y (FF)	0.08484	0.22122	0.53713
	A1->Y (FF)	0.08653	0.21667	0.51823
	B0->Y (FF)	0.05429	0.18060	0.47842
	C0->Y (FF)	0.07412	0.21068	0.52888

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X3H7R	A0	0.00077	0.00086	0.00113
	A0	0.00005	0.00005	0.00005
	A0	-0.00007	-0.00007	-0.00007
	A0	0.00188	0.00197	0.00223
	A1	0.00078	0.00086	0.00113
	A1	0.00011	0.00011	0.00011
	A1	-0.00007	-0.00007	-0.00007
	A1	0.00206	0.00215	0.00241
	B0	0.00077	0.00091	0.00142
	B0	0.00010	0.00011	0.00011
	B0	-0.00000	0.00000	0.00004
	B0	0.00175	0.00189	0.00239
	C0	0.00076	0.00092	0.00152
	C0	-0.00003	-0.00003	-0.00001
	C0	-0.00000	-0.00000	0.00000
	C0	0.00164	0.00180	0.00240

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X3H7R	A0	0.00215	0.00222	0.00261
	A0	-0.00005	-0.00005	-0.00005
	A0	0.00007	0.00007	0.00007
	A0	0.00103	0.00110	0.00150
	A1	0.00229	0.00236	0.00266
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00007	0.00007	0.00007
	A1	0.00097	0.00104	0.00134
	B0	0.00198	0.00207	0.00242
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00000	0.00000	0.00000
	B0	0.00093	0.00103	0.00141
	C0	0.00181	0.00194	0.00258
	C0	0.00001	0.00003	0.00005
	C0	0.00007	0.00007	0.00007
	C0	0.00095	0.00108	0.00172

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7R	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00006	-0.00006	-0.00005
	(A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * C0 * Y)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	0.00020	0.00020	0.00020
	(A1 * !B0 * !C0 * !Y)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00019	0.00020	0.00020
	(!A1 * B0 * C0 * Y)	-0.00013	-0.00011	-0.00008
	(!A1 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00000
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00021	0.00021	0.00022
	(!A1 * !B0 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	0.00018	0.00018	0.00018
	(!A1 * !B0 * !C0 * !Y)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * !Y)	0.00017	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7R	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00005	0.00006	0.00006
	(A1 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	0.00004	0.00004	0.00005
	(A1 * B0 * !C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * C0 * Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * !C0 * !Y)	0.00014	0.00014	0.00014
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00002
	(A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00020	-0.00020	-0.00019
	(!A1 * B0 * C0 * Y)	0.00013	0.00013	0.00014
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00002
	(!A1 * B0 * C0 * Y)	-0.00000	-0.00001	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00021	-0.00020	-0.00020
	(!A1 * !B0 * C0 * Y)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00018	-0.00017	-0.00015
	(!A1 * !B0 * !C0 * !Y)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7R	(A0 * B0 * C0 * Y)	-0.00011	-0.00010	-0.00008
	(A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00026	0.00027	0.00027
	(A0 * B0 * !C0 * Y)	-0.00011	-0.00010	-0.00009
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00026	0.00027	0.00027
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00011	-0.00010	-0.00009
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * C0 * Y)	-0.00010	-0.00009	-0.00008
	(!A0 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * B0 * C0 * Y)	0.00027	0.00027	0.00027
	(!A0 * !B0 * C0 * Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * !Y)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00024	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7R	(A0 * B0 * C0 * Y)	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * Y)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * B0 * !C0 * Y)	0.00011	0.00011	0.00012
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00027	-0.00026	-0.00026
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00011	0.00011	0.00011
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00000	-0.00001	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00027	-0.00026	-0.00026
	(!A0 * B0 * C0 * Y)	0.00010	0.00010	0.00010
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00026
	(!A0 * !B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * !B0 * C0 * Y)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * Y)	-0.00024	-0.00023	-0.00021
	(!A0 * !B0 * !C0 * !Y)	0.00012	0.00013	0.00014
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7R	(A0 * C0 * Y)	-0.00013	-0.00011	-0.00008
	(A0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * C0 * Y)	0.00000	0.00000	0.00001
	(A0 * C0 * Y)	0.00023	0.00024	0.00024
	(!A0 * A1 * C0 * Y)	-0.00012	-0.00010	-0.00007
	(!A0 * A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	0.00023	0.00023	0.00024
	(!A0 * !A1 * C0 * Y)	-0.00016	-0.00016	-0.00016
	(!A0 * !A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00001	0.00002	0.00002
	(!A0 * !A1 * C0 * Y)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !C0 * !Y)	-0.00019	-0.00019	-0.00019
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7R	(A0 * C0 * Y)	0.00013	0.00013	0.00013
	(A0 * C0 * Y)	0.00001	0.00002	0.00002
	(A0 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * C0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * C0 * Y)	0.00016	0.00016	0.00016
	(!A0 * !A1 * C0 * Y)	0.00000	0.00000	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00020	-0.00019	-0.00017
	(!A0 * !A1 * !C0 * !Y)	0.00019	0.00019	0.00020
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00001	0.00000
	(!A0 * !A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7R	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * Y)	0.00031	0.00031	0.00031
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00031	0.00031	0.00031

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X3H7R	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * Y)	-0.00031	-0.00031	-0.00031
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * Y)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * Y)	-0.00031	-0.00031	-0.00030

OAO211X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

OAO211 (Y = ((A0 + A1) • B0) + C0)

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	Y
0	0	x	0	0
x	x	x	1	1
x	1	0	0	0
x	1	1	x	1
1	x	0	0	0
1	x	1	x	1

Footprint

Cell Name	Area
OAO211X4H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	Y
OAO211X4H7R	0.00078	0.00075	0.00084	0.00090	0.15462

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAO211X4H7R	0.00000	0.55402	0.61708

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X4H7R	A0->Y (RR)	0.04357	0.19308	0.55257
	A1->Y (RR)	0.04515	0.19656	0.55895
	B0->Y (RR)	0.04159	0.19129	0.54784
	C0->Y (RR)	0.02614	0.16999	0.51612

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAO211X4H7R	A0->Y (FF)	0.08341	0.22025	0.53619
	A1->Y (FF)	0.08518	0.21580	0.51735
	B0->Y (FF)	0.05368	0.18051	0.47866
	C0->Y (FF)	0.07299	0.21021	0.52855

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X4H7R	A0	0.00093	0.00104	0.00138
	A0	0.00005	0.00005	0.00005
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00211	0.00222	0.00256
	A1	0.00093	0.00103	0.00139
	A1	0.00011	0.00011	0.00011
	A1	-0.00008	-0.00008	-0.00008
	A1	0.00230	0.00241	0.00275
	B0	0.00092	0.00109	0.00173
	B0	0.00011	0.00011	0.00011
	B0	0.00000	0.00001	0.00007
	B0	0.00193	0.00213	0.00276
	C0	0.00091	0.00110	0.00185
	C0	-0.00005	-0.00005	-0.00002
	C0	0.00000	0.00000	0.00001
	C0	0.00185	0.00204	0.00279

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAO211X4H7R	A0	0.00239	0.00248	0.00301
	A0	-0.00005	-0.00005	-0.00002
	A0	0.00008	0.00008	0.00008
	A0	0.00118	0.00128	0.00182
	A1	0.00256	0.00264	0.00305
	A1	-0.00011	-0.00011	-0.00011
	A1	0.00008	0.00008	0.00008
	A1	0.00114	0.00123	0.00164
	B0	0.00222	0.00233	0.00279
	B0	-0.00005	-0.00005	-0.00003
	B0	-0.00001	-0.00001	0.00000
	B0	0.00110	0.00122	0.00171
	C0	0.00203	0.00218	0.00300
	C0	0.00005	0.00005	0.00007
	C0	0.00008	0.00008	0.00008
	C0	0.00111	0.00127	0.00210

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7R	(A1 * B0 * C0 * Y)	-0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * Y)	0.00024	0.00024	0.00024
	(A1 * B0 * !C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * Y)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !C0 * Y)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * Y)	0.00023	0.00023	0.00024
	(A1 * !B0 * C0 * Y)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A1 * !B0 * C0 * Y)	0.00022	0.00022	0.00022
	(A1 * !B0 * !C0 * !Y)	-0.00015	-0.00014	-0.00012
	(A1 * !B0 * !C0 * !Y)	-0.00003	-0.00002	-0.00001
	(A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(A1 * !B0 * !C0 * !Y)	0.00022	0.00022	0.00022
	(!A1 * B0 * C0 * Y)	-0.00014	-0.00012	-0.00009
	(!A1 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * Y)	0.00022	0.00023	0.00024
	(!A1 * !B0 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * !B0 * C0 * Y)	0.00019	0.00019	0.00019
	(!A1 * !B0 * !C0 * !Y)	-0.00017	-0.00017	-0.00015
	(!A1 * !B0 * !C0 * !Y)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * !Y)	0.00020	0.00020	0.00020

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7R	(A1 * B0 * C0 * Y)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * Y)	0.00006	0.00006	0.00006
	(A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * Y)	-0.00024	-0.00023	-0.00023
	(A1 * B0 * !C0 * Y)	-0.00000	0.00000	0.00001
	(A1 * B0 * !C0 * Y)	0.00004	0.00005	0.00005
	(A1 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * Y)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * C0 * Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(A1 * !B0 * !C0 * !Y)	0.00015	0.00015	0.00015
	(A1 * !B0 * !C0 * !Y)	0.00001	0.00002	0.00003
	(A1 * !B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(A1 * !B0 * !C0 * !Y)	-0.00022	-0.00022	-0.00021
	(!A1 * B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A1 * B0 * C0 * Y)	0.00001	0.00002	0.00002
	(!A1 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * Y)	-0.00022	-0.00022	-0.00022
	(!A1 * !B0 * C0 * Y)	0.00017	0.00017	0.00017
	(!A1 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * Y)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !C0 * !Y)	0.00017	0.00017	0.00018
	(!A1 * !B0 * !C0 * !Y)	0.00000	0.00000	0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * !Y)	-0.00019	-0.00018	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7R	(A0 * B0 * C0 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * Y)	0.00027	0.00027	0.00027
	(A0 * B0 * !C0 * Y)	-0.00012	-0.00011	-0.00010
	(A0 * B0 * !C0 * Y)	-0.00002	-0.00002	-0.00001
	(A0 * B0 * !C0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * Y)	0.00027	0.00027	0.00027
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00027	0.00027	0.00027
	(!A0 * B0 * C0 * Y)	-0.00012	-0.00010	-0.00009
	(!A0 * B0 * C0 * Y)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * Y)	0.00027	0.00028	0.00028
	(!A0 * !B0 * C0 * Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * Y)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * !Y)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00000	0.00000
	(!A0 * !B0 * !C0 * !Y)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7R	(A0 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(A0 * B0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * Y)	-0.00001	-0.00000	-0.00000
	(A0 * B0 * C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * !C0 * Y)	0.00012	0.00012	0.00013
	(A0 * B0 * !C0 * Y)	0.00001	0.00002	0.00002
	(A0 * B0 * !C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * Y)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00012	0.00012	0.00012
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * Y) + (A0 * !B0 * !C0 * !Y)	-0.00027	-0.00027	-0.00027
	(!A0 * B0 * C0 * Y)	0.00012	0.00012	0.00012
	(!A0 * B0 * C0 * Y)	0.00001	0.00001	0.00002
	(!A0 * B0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * Y)	-0.00028	-0.00027	-0.00027
	(!A0 * !B0 * C0 * Y)	0.00014	0.00014	0.00014
	(!A0 * !B0 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * Y)	-0.00024	-0.00023	-0.00021
	(!A0 * !B0 * !C0 * !Y)	0.00014	0.00015	0.00015
	(!A0 * !B0 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * !Y)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7R	(A0 * C0 * Y)	-0.00014	-0.00012	-0.00009
	(A0 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(A0 * C0 * Y)	0.00000	0.00001	0.00001
	(A0 * C0 * Y)	0.00025	0.00026	0.00026
	(!A0 * A1 * C0 * Y)	-0.00013	-0.00012	-0.00009
	(!A0 * A1 * C0 * Y)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * A1 * C0 * Y)	0.00025	0.00025	0.00026
	(!A0 * !A1 * C0 * Y)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * !A1 * C0 * Y)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !C0 * !Y)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !C0 * !Y)	-0.00000	-0.00001	-0.00000
	(!A0 * !A1 * !C0 * !Y)	0.00002	0.00003	0.00003
	(!A0 * !A1 * !C0 * !Y)	0.00007	0.00007	0.00008

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7R	(A0 * C0 * Y)	0.00014	0.00014	0.00014
	(A0 * C0 * Y)	0.00002	0.00002	0.00002
	(A0 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * C0 * Y)	0.00013	0.00013	0.00013
	(!A0 * A1 * C0 * Y)	0.00002	0.00002	0.00002
	(!A0 * A1 * C0 * Y)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * C0 * Y)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * C0 * Y)	0.00017	0.00017	0.00017
	(!A0 * !A1 * C0 * Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * C0 * Y)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * C0 * Y)	-0.00022	-0.00021	-0.00019
	(!A0 * !A1 * !C0 * !Y)	0.00022	0.00022	0.00023
	(!A0 * !A1 * !C0 * !Y)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !C0 * !Y)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * !C0 * !Y)	-0.00007	-0.00007	-0.00006

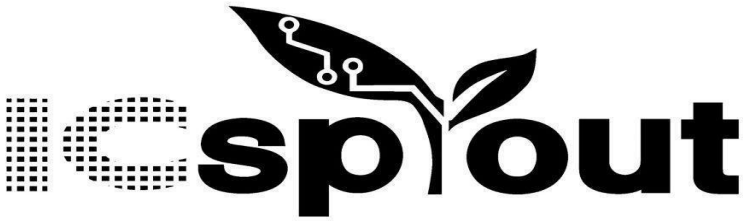
Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7R	(A0 * B0 * Y)	-0.00000	0.00000	0.00000
	(A0 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * Y)	0.00000	0.00001	0.00001
	(A0 * B0 * Y)	0.00033	0.00033	0.00033
	(!A0 * A1 * B0 * Y)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * Y)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * Y)	0.00033	0.00033	0.00033

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAO211X4H7R	(A0 * B0 * Y)	0.00000	0.00000	0.00000
	(A0 * B0 * Y)	0.00003	0.00003	0.00003
	(A0 * B0 * Y)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * Y)	-0.00033	-0.00033	-0.00032
	(!A0 * A1 * B0 * Y)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * Y)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * Y)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * Y)	-0.00033	-0.00032	-0.00032

OAOI211X0P5H7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X0P5H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X0P5H7R	0.00066	0.00063	0.00065	0.00076	0.01430

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X0P5H7R	0.00000	0.10916	0.30749

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X0P5H7R	A0->YN (FR)	0.06169	0.21337	0.65347
	A1->YN (FR)	0.06320	0.20711	0.61535
	B0->YN (FR)	0.03580	0.14940	0.49887
	C0->YN (FR)	0.05131	0.20361	0.65202

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X0P5H7R	A0->YN (RF)	0.02839	0.11325	0.39443
	A1->YN (RF)	0.02898	0.11579	0.39770
	B0->YN (RF)	0.02486	0.11003	0.39966
	C0->YN (RF)	0.01361	0.07140	0.30133

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X0P5H7R	A0	0.00104	0.00107	0.00119
	A0	-0.00008	-0.00008	-0.00008
	A0	0.00009	0.00009	0.00009
	A0	0.00004	0.00006	0.00018
	A1	0.00115	0.00117	0.00127
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00009	0.00009	0.00009
	A1	-0.00002	0.00000	0.00010
	B0	0.00091	0.00095	0.00113
	B0	-0.00008	-0.00008	-0.00008
	B0	0.00003	0.00004	0.00004
	B0	-0.00003	0.00001	0.00022
	C0	0.00080	0.00085	0.00111
	C0	-0.00002	-0.00002	-0.00001
	C0	0.00009	0.00009	0.00009
	C0	-0.00008	-0.00001	0.00037

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X0P5H7R	A0	-0.00007	-0.00004	0.00007
	A0	0.00008	0.00008	0.00008
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00092	0.00095	0.00107
	A1	-0.00006	-0.00005	0.00008
	A1	0.00012	0.00012	0.00012
	A1	-0.00009	-0.00009	-0.00009
	A1	0.00106	0.00110	0.00122
	B0	-0.00007	-0.00002	0.00026
	B0	0.00012	0.00012	0.00012
	B0	-0.00004	-0.00003	-0.00003
	B0	0.00079	0.00085	0.00111
	C0	-0.00009	-0.00002	0.00034
	C0	0.00001	0.00002	0.00003
	C0	-0.00004	-0.00003	-0.00003
	C0	0.00078	0.00083	0.00112

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7R	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00020	0.00020	0.00020
	(A1 * B0 * !C0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00019	0.00019	0.00019
	(A1 * !B0 * C0 * !YN)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * !YN)	0.00018	0.00018	0.00018
	(A1 * !B0 * !C0 * YN)	-0.00011	-0.00010	-0.00009
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	0.00018	0.00018	0.00018
	(!A1 * B0 * C0 * !YN)	-0.00010	-0.00008	-0.00006
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !YN)	0.00018	0.00019	0.00020
	(!A1 * !B0 * C0 * !YN)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	0.00016	0.00016	0.00016
	(!A1 * !B0 * !C0 * YN)	-0.00012	-0.00012	-0.00012
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	0.00016	0.00016	0.00016

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7R	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00004	0.00004	0.00004
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00020	-0.00019	-0.00019
	(A1 * B0 * !C0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !YN)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * C0 * !YN)	0.00011	0.00011	0.00011
	(A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * !YN)	-0.00018	-0.00018	-0.00018
	(A1 * !B0 * !C0 * YN)	0.00011	0.00011	0.00011
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00018	-0.00018	-0.00018
	(!A1 * B0 * C0 * !YN)	0.00010	0.00010	0.00010
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * !YN)	0.00012	0.00012	0.00012
	(!A1 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00016	-0.00015	-0.00014
	(!A1 * !B0 * !C0 * YN)	0.00012	0.00013	0.00013
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00016	-0.00015	-0.00014

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7R	(A0 * B0 * C0 * !YN)	-0.00008	-0.00007	-0.00007
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * C0 * !YN)	0.00024	0.00024	0.00025
	(A0 * B0 * !C0 * !YN)	-0.00008	-0.00007	-0.00006
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !YN)	0.00024	0.00024	0.00025
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00008	-0.00007	-0.00007
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00024	0.00024	0.00025
	(!A0 * B0 * C0 * !YN)	-0.00008	-0.00007	-0.00006
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !YN)	0.00025	0.00025	0.00025
	(!A0 * !B0 * C0 * !YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !YN)	0.00022	0.00022	0.00022
	(!A0 * !B0 * !C0 * YN)	-0.00009	-0.00009	-0.00009
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	0.00023	0.00023	0.00023

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7R	(A0 * B0 * C0 * !YN)	0.00008	0.00008	0.00008
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00024	-0.00024	-0.00024
	(A0 * B0 * !C0 * !YN)	0.00008	0.00008	0.00008
	(A0 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !YN)	-0.00024	-0.00024	-0.00024
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00008	0.00008	0.00008
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00024	-0.00024	-0.00024
	(!A0 * B0 * C0 * !YN)	0.00008	0.00008	0.00008
	(!A0 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN)	-0.00025	-0.00024	-0.00024
	(!A0 * !B0 * C0 * !YN)	0.00009	0.00009	0.00009
	(!A0 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00022	-0.00021	-0.00020
	(!A0 * !B0 * !C0 * YN)	0.00009	0.00010	0.00010
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00022	-0.00021	-0.00019

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7R	(A0 * C0 * !YN)	-0.00010	-0.00008	-0.00006
	(A0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * C0 * !YN)	0.00021	0.00021	0.00022
	(!A0 * A1 * C0 * !YN)	-0.00009	-0.00008	-0.00006
	(!A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * !YN)	0.00020	0.00021	0.00021
	(!A0 * !A1 * C0 * !YN)	-0.00012	-0.00012	-0.00012
	(!A0 * !A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !YN)	0.00017	0.00018	0.00018
	(!A0 * !A1 * !C0 * YN)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !C0 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7R	(A0 * C0 * !YN)	0.00010	0.00010	0.00010
	(A0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * !YN)	-0.00021	-0.00020	-0.00020
	(!A0 * A1 * C0 * !YN)	0.00009	0.00009	0.00009
	(!A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * !YN)	-0.00020	-0.00020	-0.00020
	(!A0 * !A1 * C0 * !YN)	0.00012	0.00012	0.00012
	(!A0 * !A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00018	-0.00017	-0.00015
	(!A0 * !A1 * !C0 * YN)	0.00016	0.00016	0.00016
	(!A0 * !A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !C0 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7R	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00029	0.00030	0.00030
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00029	0.00029	0.00030

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P5H7R	(A0 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN)	-0.00030	-0.00029	-0.00029
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !YN)	-0.00029	-0.00029	-0.00029

OAOI211X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X0P7H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X0P7H7R	0.00069	0.00067	0.00069	0.00081	0.01618

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X0P7H7R	0.00000	0.12352	0.34241

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X0P7H7R	A0->YN (FR)	0.05764	0.21010	0.65425
	A1->YN (FR)	0.05929	0.20407	0.61575
	B0->YN (FR)	0.03351	0.14742	0.50007
	C0->YN (FR)	0.04746	0.20041	0.65203

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X0P7H7R	A0->YN (RF)	0.02646	0.11096	0.39292
	A1->YN (RF)	0.02709	0.11361	0.39597
	B0->YN (RF)	0.02314	0.10786	0.39848
	C0->YN (RF)	0.01274	0.06985	0.29992

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X0P7H7R	A0	0.00112	0.00115	0.00128
	A0	-0.00009	-0.00009	-0.00009
	A0	0.00010	0.00010	0.00010
	A0	0.00003	0.00006	0.00019
	A1	0.00124	0.00127	0.00138
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00010	0.00010	0.00010
	A1	-0.00003	-0.00000	0.00011
	B0	0.00098	0.00102	0.00123
	B0	-0.00009	-0.00009	-0.00009
	B0	0.00004	0.00004	0.00004
	B0	-0.00003	0.00001	0.00025
	C0	0.00085	0.00091	0.00120
	C0	-0.00003	-0.00002	-0.00000
	C0	0.00010	0.00010	0.00010
	C0	-0.00010	-0.00001	0.00042

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X0P7H7R	A0	-0.00008	-0.00005	0.00008
	A0	0.00009	0.00009	0.00009
	A0	-0.00010	-0.00010	-0.00010
	A0	0.00100	0.00103	0.00116
	A1	-0.00007	-0.00005	0.00009
	A1	0.00014	0.00014	0.00014
	A1	-0.00010	-0.00010	-0.00010
	A1	0.00114	0.00118	0.00132
	B0	-0.00008	-0.00002	0.00029
	B0	0.00014	0.00014	0.00015
	B0	-0.00004	-0.00004	-0.00002
	B0	0.00085	0.00092	0.00121
	C0	-0.00010	-0.00002	0.00039
	C0	0.00000	0.00002	0.00003
	C0	-0.00004	-0.00004	-0.00004
	C0	0.00083	0.00090	0.00123

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7R	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00005	-0.00005	-0.00005
	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00001
	(A1 * B0 * C0 * !YN)	0.00021	0.00021	0.00021
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00020	0.00020	0.00020
	(A1 * !B0 * C0 * !YN)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * C0 * !YN)	0.00019	0.00019	0.00019
	(A1 * !B0 * !C0 * YN)	-0.00012	-0.00011	-0.00010
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A1 * !B0 * !C0 * YN)	0.00019	0.00019	0.00019
	(!A1 * B0 * C0 * !YN)	-0.00011	-0.00009	-0.00007
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * B0 * C0 * !YN)	0.00019	0.00020	0.00021
	(!A1 * !B0 * C0 * !YN)	-0.00014	-0.00014	-0.00013
	(!A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	0.00017	0.00017	0.00017
	(!A1 * !B0 * !C0 * YN)	-0.00014	-0.00014	-0.00013
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	0.00017	0.00017	0.00017

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7R	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00005	0.00005	0.00005
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00021	-0.00020	-0.00020
	(A1 * B0 * !C0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00003	0.00003	0.00003
	(A1 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !YN)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * C0 * !YN)	0.00012	0.00012	0.00012
	(A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * !YN)	-0.00019	-0.00019	-0.00019
	(A1 * !B0 * !C0 * YN)	0.00012	0.00012	0.00012
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00019	-0.00019	-0.00019
	(!A1 * B0 * C0 * !YN)	0.00011	0.00011	0.00011
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00019	-0.00019	-0.00019
	(!A1 * !B0 * C0 * !YN)	0.00013	0.00014	0.00014
	(!A1 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00017	-0.00016	-0.00015
	(!A1 * !B0 * !C0 * YN)	0.00014	0.00014	0.00014
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00017	-0.00016	-0.00014

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7R	(A0 * B0 * C0 * !YN)	-0.00009	-0.00008	-0.00007
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00001
	(A0 * B0 * C0 * !YN)	0.00025	0.00025	0.00025
	(A0 * B0 * !C0 * !YN)	-0.00009	-0.00008	-0.00007
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !YN)	0.00025	0.00025	0.00026
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00009	-0.00008	-0.00007
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00025	0.00025	0.00025
	(!A0 * B0 * C0 * !YN)	-0.00009	-0.00008	-0.00006
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * B0 * C0 * !YN)	0.00026	0.00026	0.00026
	(!A0 * !B0 * C0 * !YN)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !YN)	0.00023	0.00023	0.00023
	(!A0 * !B0 * !C0 * YN)	-0.00010	-0.00010	-0.00010
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	0.00023	0.00024	0.00024

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7R	(A0 * B0 * C0 * !YN)	0.00009	0.00009	0.00009
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * B0 * !C0 * !YN)	0.00009	0.00009	0.00009
	(A0 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !YN)	-0.00025	-0.00025	-0.00025
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00009	0.00009	0.00009
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00025	-0.00025	-0.00025
	(!A0 * B0 * C0 * !YN)	0.00009	0.00009	0.00009
	(!A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * B0 * C0 * !YN)	-0.00026	-0.00026	-0.00025
	(!A0 * !B0 * C0 * !YN)	0.00010	0.00010	0.00010
	(!A0 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00023	-0.00022	-0.00020
	(!A0 * !B0 * !C0 * YN)	0.00011	0.00011	0.00012
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00023	-0.00022	-0.00020

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7R	(A0 * C0 * !YN)	-0.00011	-0.00009	-0.00007
	(A0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * C0 * !YN)	0.00021	0.00022	0.00022
	(!A0 * A1 * C0 * !YN)	-0.00010	-0.00009	-0.00007
	(!A0 * A1 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * C0 * !YN)	0.00021	0.00021	0.00022
	(!A0 * !A1 * C0 * !YN)	-0.00013	-0.00013	-0.00013
	(!A0 * !A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !YN)	0.00018	0.00018	0.00018
	(!A0 * !A1 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !A1 * !C0 * YN)	0.00006	0.00006	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7R	(A0 * C0 * !YN)	0.00011	0.00011	0.00011
	(A0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * !YN)	-0.00021	-0.00021	-0.00021
	(!A0 * A1 * C0 * !YN)	0.00010	0.00010	0.00010
	(!A0 * A1 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * !YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * C0 * !YN)	0.00013	0.00013	0.00013
	(!A0 * !A1 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00018	-0.00017	-0.00016
	(!A0 * !A1 * !C0 * YN)	0.00017	0.00017	0.00017
	(!A0 * !A1 * !C0 * YN)	0.00000	0.00000	0.00000
	(!A0 * !A1 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !A1 * !C0 * YN)	-0.00006	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7R	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00031	0.00031	0.00032
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00031	0.00031	0.00031

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X0P7H7R	(A0 * B0 * !YN)	-0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN)	-0.00031	-0.00031	-0.00031
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00002	0.00002	0.00003
	(!A0 * A1 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * B0 * !YN)	-0.00031	-0.00031	-0.00030

OAOI211X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X1H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X1H7R	0.00076	0.00072	0.00075	0.00086	0.01923

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X1H7R	0.00000	0.14406	0.39125

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X1H7R	A0->YN (FR)	0.05284	0.20603	0.65523
	A1->YN (FR)	0.05449	0.20032	0.61719
	B0->YN (FR)	0.03083	0.14507	0.50120
	C0->YN (FR)	0.04245	0.19601	0.65222

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X1H7R	A0->YN (RF)	0.02468	0.10990	0.39655
	A1->YN (RF)	0.02533	0.11274	0.40000
	B0->YN (RF)	0.02153	0.10707	0.40144
	C0->YN (RF)	0.01180	0.06891	0.30147

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X1H7R	A0	0.00124	0.00128	0.00143
	A0	-0.00011	-0.00011	-0.00011
	A0	0.00012	0.00012	0.00012
	A0	0.00002	0.00005	0.00020
	A1	0.00139	0.00142	0.00155
	A1	-0.00017	-0.00017	-0.00016
	A1	0.00012	0.00012	0.00012
	A1	-0.00004	-0.00001	0.00012
	B0	0.00110	0.00115	0.00140
	B0	-0.00011	-0.00011	-0.00011
	B0	0.00004	0.00005	0.00006
	B0	-0.00005	0.00000	0.00029
	C0	0.00093	0.00100	0.00135
	C0	-0.00003	-0.00003	0.00000
	C0	0.00012	0.00012	0.00012
	C0	-0.00010	0.00000	0.00051

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X1H7R	A0	-0.00009	-0.00006	0.00010
	A0	0.00011	0.00011	0.00011
	A0	-0.00012	-0.00012	-0.00012
	A0	0.00110	0.00115	0.00131
	A1	-0.00009	-0.00006	0.00010
	A1	0.00016	0.00017	0.00017
	A1	-0.00012	-0.00012	-0.00012
	A1	0.00127	0.00132	0.00148
	B0	-0.00009	-0.00003	0.00035
	B0	0.00016	0.00017	0.00017
	B0	-0.00005	-0.00005	-0.00004
	B0	0.00096	0.00104	0.00138
	C0	-0.00012	-0.00002	0.00047
	C0	0.00003	0.00003	0.00003
	C0	-0.00005	-0.00005	-0.00005
	C0	0.00089	0.00097	0.00137

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7R	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00022	0.00022	0.00022
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * B0 * !C0 * !YN)	0.00000	0.00001	0.00000
	(A1 * B0 * !C0 * !YN)	0.00022	0.00022	0.00022
	(A1 * !B0 * C0 * !YN)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * C0 * !YN)	0.00000	0.00001	0.00000
	(A1 * !B0 * C0 * !YN)	0.00020	0.00020	0.00020
	(A1 * !B0 * !C0 * YN)	-0.00014	-0.00013	-0.00012
	(A1 * !B0 * !C0 * YN)	-0.00002	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00020	0.00020	0.00020
	(!A1 * B0 * C0 * !YN)	-0.00013	-0.00011	-0.00008
	(!A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00021	0.00021	0.00022
	(!A1 * !B0 * C0 * !YN)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00002
	(!A1 * !B0 * C0 * !YN)	0.00017	0.00018	0.00018
	(!A1 * !B0 * !C0 * YN)	-0.00016	-0.00016	-0.00016
	(!A1 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	0.00018	0.00018	0.00018

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7R	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00006	0.00006	0.00006
	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00022	-0.00022	-0.00022
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00004	0.00004	0.00004
	(A1 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * B0 * !C0 * !YN)	-0.00022	-0.00022	-0.00021
	(A1 * !B0 * C0 * !YN)	0.00014	0.00014	0.00014
	(A1 * !B0 * C0 * !YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A1 * !B0 * C0 * !YN)	-0.00020	-0.00020	-0.00020
	(A1 * !B0 * !C0 * YN)	0.00014	0.00014	0.00014
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00002
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00020	-0.00020	-0.00020
	(!A1 * B0 * C0 * !YN)	0.00013	0.00013	0.00013
	(!A1 * B0 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A1 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00021	-0.00020	-0.00020
	(!A1 * !B0 * C0 * !YN)	0.00016	0.00016	0.00016
	(!A1 * !B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00002	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00018	-0.00017	-0.00015
	(!A1 * !B0 * !C0 * YN)	0.00016	0.00016	0.00017
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00018	-0.00017	-0.00015

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7R	(A0 * B0 * C0 * !YN)	-0.00011	-0.00010	-0.00009
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00027	0.00027	0.00027
	(A0 * B0 * !C0 * !YN)	-0.00011	-0.00010	-0.00009
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !C0 * !YN)	0.00027	0.00027	0.00027
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00011	-0.00010	-0.00009
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00027	0.00027	0.00027
	(!A0 * B0 * C0 * !YN)	-0.00010	-0.00009	-0.00008
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	0.00027	0.00027	0.00027
	(!A0 * !B0 * C0 * !YN)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !YN)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * YN)	-0.00012	-0.00012	-0.00012
	(!A0 * !B0 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	0.00025	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7R	(A0 * B0 * C0 * !YN)	0.00011	0.00011	0.00011
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00027	-0.00026	-0.00026
	(A0 * B0 * !C0 * !YN)	0.00011	0.00011	0.00011
	(A0 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !C0 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00011	0.00011	0.00011
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00000	-0.00001	-0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00027	-0.00026	-0.00026
	(!A0 * B0 * C0 * !YN)	0.00010	0.00010	0.00010
	(!A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !B0 * C0 * !YN)	0.00012	0.00012	0.00012
	(!A0 * !B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00024	-0.00023	-0.00021
	(!A0 * !B0 * !C0 * YN)	0.00012	0.00013	0.00014
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7R	(A0 * C0 * !YN)	-0.00012	-0.00011	-0.00008
	(A0 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(A0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * C0 * !YN)	0.00023	0.00023	0.00024
	(!A0 * A1 * C0 * !YN)	-0.00012	-0.00010	-0.00008
	(!A0 * A1 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * A1 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A1 * C0 * !YN)	0.00023	0.00023	0.00023
	(!A0 * !A1 * C0 * !YN)	-0.00016	-0.00015	-0.00015
	(!A0 * !A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * C0 * !YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !C0 * YN)	-0.00020	-0.00019	-0.00019
	(!A0 * !A1 * !C0 * YN)	-0.00000	-0.00000	-0.00000
	(!A0 * !A1 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !C0 * YN)	0.00006	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7R	(A0 * C0 * !YN)	0.00012	0.00012	0.00013
	(A0 * C0 * !YN)	0.00001	0.00002	0.00002
	(A0 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * C0 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * A1 * C0 * !YN)	0.00012	0.00012	0.00012
	(!A0 * A1 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * A1 * C0 * !YN)	-0.00000	-0.00000	-0.00000
	(!A0 * A1 * C0 * !YN)	-0.00023	-0.00023	-0.00023
	(!A0 * !A1 * C0 * !YN)	0.00015	0.00015	0.00016
	(!A0 * !A1 * C0 * !YN)	0.00000	0.00000	0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00002	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00020	-0.00019	-0.00017
	(!A0 * !A1 * !C0 * YN)	0.00020	0.00020	0.00020
	(!A0 * !A1 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !C0 * YN)	-0.00007	-0.00006	-0.00006

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7R	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !YN)	0.00032	0.00032	0.00032
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * !YN)	0.00032	0.00032	0.00032

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1H7R	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00003	0.00003	0.00003
	(A0 * B0 * !YN)	-0.00000	-0.00000	-0.00000
	(A0 * B0 * !YN)	-0.00032	-0.00032	-0.00032
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * A1 * B0 * !YN)	-0.00000	-0.00001	-0.00000
	(!A0 * A1 * B0 * !YN)	-0.00032	-0.00032	-0.00031

OAOI211X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X1P4H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X1P4H7R	0.00080	0.00075	0.00083	0.00092	0.02194

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X1P4H7R	0.00000	0.16383	0.44032

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X1P4H7R	A0->YN (FR)	0.05028	0.20412	0.65492
	A1->YN (FR)	0.05194	0.19866	0.61778
	B0->YN (FR)	0.02914	0.14374	0.50292
	C0->YN (FR)	0.03922	0.19346	0.65162

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X1P4H7R	A0->YN (RF)	0.02335	0.10818	0.39527
	A1->YN (RF)	0.02394	0.11112	0.39883
	B0->YN (RF)	0.02014	0.10531	0.39990
	C0->YN (RF)	0.01100	0.06735	0.29997

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X1P4H7R	A0	0.00137	0.00141	0.00158
	A0	-0.00013	-0.00013	-0.00013
	A0	0.00014	0.00014	0.00014
	A0	0.00003	0.00006	0.00024
	A1	0.00154	0.00157	0.00172
	A1	-0.00019	-0.00019	-0.00019
	A1	0.00014	0.00014	0.00014
	A1	-0.00002	0.00001	0.00015
	B0	0.00121	0.00127	0.00155
	B0	-0.00013	-0.00013	-0.00013
	B0	0.00005	0.00006	0.00006
	B0	-0.00007	-0.00001	0.00032
	C0	0.00100	0.00108	0.00149
	C0	-0.00003	-0.00003	0.00000
	C0	0.00014	0.00014	0.00014
	C0	-0.00012	-0.00001	0.00059

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X1P4H7R	A0	-0.00011	-0.00007	0.00011
	A0	0.00013	0.00013	0.00013
	A0	-0.00014	-0.00014	-0.00014
	A0	0.00121	0.00126	0.00144
	A1	-0.00010	-0.00007	0.00011
	A1	0.00019	0.00019	0.00019
	A1	-0.00014	-0.00014	-0.00014
	A1	0.00139	0.00144	0.00163
	B0	-0.00010	-0.00003	0.00039
	B0	0.00019	0.00019	0.00019
	B0	-0.00006	-0.00006	-0.00005
	B0	0.00105	0.00115	0.00154
	C0	-0.00013	-0.00003	0.00055
	C0	0.00000	0.00003	0.00010
	C0	-0.00006	-0.00006	-0.00005
	C0	0.00097	0.00106	0.00152

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7R	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00023	0.00023	0.00024
	(A1 * B0 * !C0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00005	-0.00005	-0.00004
	(A1 * B0 * !C0 * !YN)	0.00000	0.00001	0.00001
	(A1 * B0 * !C0 * !YN)	0.00023	0.00023	0.00023
	(A1 * !B0 * C0 * !YN)	-0.00016	-0.00015	-0.00013
	(A1 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * C0 * !YN)	0.00021	0.00021	0.00021
	(A1 * !B0 * !C0 * YN)	-0.00016	-0.00015	-0.00013
	(A1 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(A1 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00021	0.00021	0.00021
	(!A1 * B0 * C0 * !YN)	-0.00014	-0.00012	-0.00009
	(!A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00022	0.00022	0.00023
	(!A1 * !B0 * C0 * !YN)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A1 * !B0 * C0 * !YN)	0.00018	0.00019	0.00019
	(!A1 * !B0 * !C0 * YN)	-0.00018	-0.00018	-0.00018
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	0.00019	0.00019	0.00019

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7R	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00006	0.00006	0.00006
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00023	-0.00023	-0.00023
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00005	0.00005	0.00005
	(A1 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !YN)	-0.00023	-0.00023	-0.00023
	(A1 * !B0 * C0 * !YN)	0.00016	0.00016	0.00016
	(A1 * !B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * C0 * !YN)	-0.00021	-0.00021	-0.00021
	(A1 * !B0 * !C0 * YN)	0.00016	0.00016	0.00016
	(A1 * !B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00021	-0.00021	-0.00021
	(!A1 * B0 * C0 * !YN)	0.00014	0.00014	0.00014
	(!A1 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00022	-0.00022	-0.00021
	(!A1 * !B0 * C0 * !YN)	0.00018	0.00018	0.00018
	(!A1 * !B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00019	-0.00018	-0.00016
	(!A1 * !B0 * !C0 * YN)	0.00018	0.00018	0.00019
	(!A1 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00019	-0.00017	-0.00016

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7R	(A0 * B0 * C0 * !YN)	-0.00012	-0.00011	-0.00010
	(A0 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00027	0.00027	0.00027
	(A0 * B0 * !C0 * !YN)	-0.00012	-0.00011	-0.00010
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	0.00027	0.00027	0.00027
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00012	-0.00011	-0.00010
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00027	0.00027	0.00027
	(!A0 * B0 * C0 * !YN)	-0.00012	-0.00011	-0.00009
	(!A0 * B0 * C0 * !YN)	-0.00002	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	0.00027	0.00027	0.00027
	(!A0 * !B0 * C0 * !YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * !YN)	0.00024	0.00024	0.00024
	(!A0 * !B0 * !C0 * YN)	-0.00014	-0.00014	-0.00014
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	0.00025	0.00025	0.00025

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7R	(A0 * B0 * C0 * !YN)	0.00012	0.00012	0.00012
	(A0 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * C0 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * B0 * !C0 * !YN)	0.00012	0.00013	0.00013
	(A0 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !YN)	-0.00027	-0.00027	-0.00027
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00012	0.00012	0.00012
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00027	-0.00027	-0.00027
	(!A0 * B0 * C0 * !YN)	0.00012	0.00012	0.00012
	(!A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00002
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * B0 * C0 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !B0 * C0 * !YN)	0.00014	0.00014	0.00014
	(!A0 * !B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !YN)	-0.00024	-0.00023	-0.00021
	(!A0 * !B0 * !C0 * YN)	0.00014	0.00015	0.00016
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00024	-0.00023	-0.00021

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7R	(A0 * C0 * !YN)	-0.00014	-0.00012	-0.00010
	(A0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * C0 * !YN)	0.00025	0.00025	0.00026
	(!A0 * A1 * C0 * !YN)	-0.00013	-0.00012	-0.00009
	(!A0 * A1 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * A1 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A1 * C0 * !YN)	0.00025	0.00025	0.00025
	(!A0 * !A1 * C0 * !YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !A1 * C0 * !YN)	-0.00000	-0.00001	-0.00000
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * C0 * !YN)	0.00021	0.00022	0.00022
	(!A0 * !A1 * !C0 * YN)	-0.00022	-0.00022	-0.00022
	(!A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !A1 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !C0 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7R	(A0 * C0 * !YN)	0.00014	0.00014	0.00014
	(A0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * C0 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * A1 * C0 * !YN)	0.00013	0.00013	0.00013
	(!A0 * A1 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * C0 * !YN)	-0.00025	-0.00025	-0.00025
	(!A0 * !A1 * C0 * !YN)	0.00017	0.00017	0.00017
	(!A0 * !A1 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00022	-0.00020	-0.00018
	(!A0 * !A1 * !C0 * YN)	0.00022	0.00022	0.00022
	(!A0 * !A1 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !A1 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !C0 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7R	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !YN)	0.00034	0.00034	0.00034
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A1 * B0 * !YN)	0.00034	0.00034	0.00034

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X1P4H7R	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00003	0.00003	0.00003
	(A0 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !YN)	-0.00034	-0.00034	-0.00034
	(!A0 * A1 * B0 * !YN)	-0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00003	0.00003	0.00004
	(!A0 * A1 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * B0 * !YN)	-0.00034	-0.00034	-0.00033

OAOI211X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X2H7R	0.00094	0.00087	0.00095	0.00104	0.02574

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X2H7R	0.00000	0.19420	0.51834

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X2H7R	A0->YN (FR)	0.04769	0.20200	0.65569
	A1->YN (FR)	0.04937	0.19669	0.61883
	B0->YN (FR)	0.02805	0.14303	0.50393
	C0->YN (FR)	0.03715	0.19178	0.65202

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X2H7R	A0->YN (RF)	0.02176	0.10484	0.38849
	A1->YN (RF)	0.02235	0.10790	0.39214
	B0->YN (RF)	0.01905	0.10258	0.39405
	C0->YN (RF)	0.01051	0.06552	0.29561

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X2H7R	A0	0.00155	0.00160	0.00181
	A0	-0.00016	-0.00016	-0.00015
	A0	0.00017	0.00017	0.00017
	A0	-0.00002	0.00003	0.00024
	A1	0.00176	0.00179	0.00197
	A1	-0.00023	-0.00023	-0.00023
	A1	0.00017	0.00017	0.00017
	A1	-0.00006	-0.00002	0.00015
	B0	0.00141	0.00147	0.00181
	B0	-0.00016	-0.00016	-0.00015
	B0	0.00007	0.00007	0.00007
	B0	-0.00008	-0.00001	0.00038
	C0	0.00113	0.00123	0.00171
	C0	-0.00004	-0.00004	-0.00003
	C0	0.00017	0.00017	0.00017
	C0	-0.00015	-0.00001	0.00069

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X2H7R	A0	-0.00013	-0.00008	0.00014
	A0	0.00015	0.00016	0.00016
	A0	-0.00017	-0.00017	-0.00017
	A0	0.00141	0.00147	0.00169
	A1	-0.00012	-0.00008	0.00014
	A1	0.00023	0.00023	0.00023
	A1	-0.00017	-0.00017	-0.00017
	A1	0.00162	0.00168	0.00190
	B0	-0.00013	-0.00004	0.00046
	B0	0.00023	0.00023	0.00023
	B0	-0.00007	-0.00007	-0.00007
	B0	0.00122	0.00134	0.00179
	C0	-0.00014	-0.00002	0.00067
	C0	0.00003	0.00004	0.00005
	C0	-0.00007	-0.00007	-0.00007
	C0	0.00110	0.00122	0.00178

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7R	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00008	-0.00008	-0.00008
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00027	0.00027	0.00027
	(A1 * B0 * !C0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00006	-0.00006	-0.00006
	(A1 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !YN)	0.00026	0.00027	0.00027
	(A1 * !B0 * C0 * !YN)	-0.00018	-0.00017	-0.00015
	(A1 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !YN)	0.00025	0.00025	0.00025
	(A1 * !B0 * !C0 * YN)	-0.00018	-0.00017	-0.00015
	(A1 * !B0 * !C0 * YN)	-0.00003	-0.00002	-0.00002
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00025	0.00025	0.00025
	(!A1 * B0 * C0 * !YN)	-0.00017	-0.00014	-0.00011
	(!A1 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00025	0.00026	0.00027
	(!A1 * !B0 * C0 * !YN)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * C0 * !YN)	0.00022	0.00022	0.00022
	(!A1 * !B0 * !C0 * YN)	-0.00021	-0.00021	-0.00021
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(!A1 * !B0 * !C0 * YN)	0.00023	0.00023	0.00023

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7R	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00008	0.00008	0.00008
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * C0 * !YN)	-0.00027	-0.00027	-0.00026
	(A1 * B0 * !C0 * !YN)	-0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00006	0.00006	0.00006
	(A1 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A1 * B0 * !C0 * !YN)	-0.00027	-0.00026	-0.00026
	(A1 * !B0 * C0 * !YN)	0.00018	0.00018	0.00018
	(A1 * !B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !YN)	-0.00025	-0.00025	-0.00024
	(A1 * !B0 * !C0 * YN)	0.00018	0.00018	0.00018
	(A1 * !B0 * !C0 * YN)	0.00002	0.00002	0.00003
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(A1 * !B0 * !C0 * YN)	-0.00025	-0.00025	-0.00025
	(!A1 * B0 * C0 * !YN)	0.00017	0.00017	0.00017
	(!A1 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00026	-0.00025	-0.00025
	(!A1 * !B0 * C0 * !YN)	0.00021	0.00021	0.00021
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * C0 * !YN)	-0.00022	-0.00021	-0.00019
	(!A1 * !B0 * !C0 * YN)	0.00021	0.00021	0.00022
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00022	-0.00020	-0.00018

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7R	(A0 * B0 * C0 * !YN)	-0.00015	-0.00014	-0.00012
	(A0 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00030	0.00030	0.00030
	(A0 * B0 * !C0 * !YN)	-0.00015	-0.00014	-0.00012
	(A0 * B0 * !C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	0.00030	0.00030	0.00030
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00014	-0.00014	-0.00012
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00030	0.00030	0.00030
	(!A0 * B0 * C0 * !YN)	-0.00014	-0.00012	-0.00010
	(!A0 * B0 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	0.00030	0.00030	0.00031
	(!A0 * !B0 * C0 * !YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * C0 * !YN)	0.00027	0.00027	0.00027
	(!A0 * !B0 * !C0 * YN)	-0.00017	-0.00017	-0.00017
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00002	0.00002
	(!A0 * !B0 * !C0 * YN)	0.00028	0.00028	0.00028

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7R	(A0 * B0 * C0 * !YN)	0.00014	0.00014	0.00015
	(A0 * B0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	-0.00030	-0.00030	-0.00030
	(A0 * B0 * !C0 * !YN)	0.00015	0.00015	0.00015
	(A0 * B0 * !C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !C0 * !YN)	-0.00030	-0.00030	-0.00030
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00014	0.00014	0.00015
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00030	-0.00030	-0.00030
	(!A0 * B0 * C0 * !YN)	0.00014	0.00014	0.00014
	(!A0 * B0 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN)	-0.00030	-0.00030	-0.00030
	(!A0 * !B0 * C0 * !YN)	0.00017	0.00017	0.00017
	(!A0 * !B0 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * C0 * !YN)	-0.00027	-0.00026	-0.00024
	(!A0 * !B0 * !C0 * YN)	0.00017	0.00017	0.00019
	(!A0 * !B0 * !C0 * YN)	0.00000	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00027	-0.00025	-0.00023

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7R	(A0 * C0 * !YN)	-0.00017	-0.00015	-0.00012
	(A0 * C0 * !YN)	-0.00002	-0.00002	-0.00002
	(A0 * C0 * !YN)	0.00000	0.00001	0.00001
	(A0 * C0 * !YN)	0.00027	0.00028	0.00029
	(!A0 * A1 * C0 * !YN)	-0.00016	-0.00014	-0.00011
	(!A0 * A1 * C0 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * A1 * C0 * !YN)	0.00000	0.00001	0.00001
	(!A0 * A1 * C0 * !YN)	0.00027	0.00027	0.00027
	(!A0 * !A1 * C0 * !YN)	-0.00021	-0.00021	-0.00021
	(!A0 * !A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00002	0.00002
	(!A0 * !A1 * C0 * !YN)	0.00023	0.00024	0.00024
	(!A0 * !A1 * !C0 * YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !A1 * !C0 * YN)	0.00007	0.00007	0.00007

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7R	(A0 * C0 * !YN)	0.00017	0.00017	0.00017
	(A0 * C0 * !YN)	0.00002	0.00002	0.00002
	(A0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * C0 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * A1 * C0 * !YN)	0.00016	0.00016	0.00016
	(!A0 * A1 * C0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A0 * A1 * C0 * !YN)	-0.00027	-0.00027	-0.00027
	(!A0 * !A1 * C0 * !YN)	0.00021	0.00021	0.00021
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00002	-0.00002	-0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00024	-0.00022	-0.00020
	(!A0 * !A1 * !C0 * YN)	0.00027	0.00027	0.00028
	(!A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !A1 * !C0 * YN)	-0.00007	-0.00007	-0.00007

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7R	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !YN)	0.00000	0.00001	0.00001
	(A0 * B0 * !YN)	0.00039	0.00039	0.00039
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !YN)	0.00039	0.00039	0.00039

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X2H7R	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00004	0.00004	0.00004
	(A0 * B0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * B0 * !YN)	-0.00039	-0.00039	-0.00038
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00004	0.00004	0.00004
	(!A0 * A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !YN)	-0.00039	-0.00038	-0.00038

OAOI211X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X3H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X3H7R	0.00153	0.00151	0.00167	0.00167	0.04008

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X3H7R	0.00000	0.30419	0.82437

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X3H7R	A0->YN (FR)	0.04724	0.20156	0.65476
	A1->YN (FR)	0.05015	0.19813	0.61903
	B0->YN (FR)	0.02847	0.14346	0.50247
	C0->YN (FR)	0.03538	0.19036	0.65106

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X3H7R	A0->YN (RF)	0.02177	0.10594	0.39329
	A1->YN (RF)	0.02274	0.10961	0.39731
	B0->YN (RF)	0.01903	0.10413	0.39884
	C0->YN (RF)	0.01021	0.06528	0.29744

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X3H7R	A0	0.00259	0.00267	0.00301
	A0	-0.00024	-0.00024	-0.00023
	A0	0.00025	0.00026	0.00026
	A0	-0.00004	0.00003	0.00037
	A1	0.00309	0.00315	0.00341
	A1	-0.00035	-0.00035	-0.00034
	A1	0.00025	0.00026	0.00026
	A1	-0.00002	0.00004	0.00030
	B0	0.00252	0.00263	0.00317
	B0	-0.00024	-0.00023	-0.00020
	B0	0.00010	0.00010	0.00011
	B0	-0.00015	-0.00003	0.00061
	C0	0.00187	0.00202	0.00281
	C0	-0.00006	-0.00006	-0.00005
	C0	0.00025	0.00025	0.00026
	C0	-0.00027	-0.00005	0.00111

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X3H7R	A0	-0.00018	-0.00011	0.00023
	A0	0.00023	0.00024	0.00024
	A0	-0.00026	-0.00026	-0.00025
	A0	0.00240	0.00249	0.00284
	A1	-0.00021	-0.00015	0.00019
	A1	0.00034	0.00035	0.00035
	A1	-0.00026	-0.00026	-0.00025
	A1	0.00274	0.00285	0.00319
	B0	-0.00016	-0.00002	0.00074
	B0	0.00034	0.00035	0.00035
	B0	-0.00010	-0.00010	-0.00009
	B0	0.00216	0.00233	0.00303
	C0	-0.00020	0.00001	0.00113
	C0	0.00005	0.00006	0.00010
	C0	-0.00010	-0.00010	-0.00010
	C0	0.00190	0.00206	0.00296

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7R	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00012	-0.00012	-0.00012
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00049	0.00049	0.00049
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00008	-0.00008	-0.00008
	(A1 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !YN)	0.00048	0.00049	0.00049
	(A1 * !B0 * C0 * !YN)	-0.00033	-0.00030	-0.00026
	(A1 * !B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !YN)	0.00044	0.00044	0.00045
	(A1 * !B0 * !C0 * YN)	-0.00033	-0.00030	-0.00026
	(A1 * !B0 * !C0 * YN)	-0.00004	-0.00003	-0.00002
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00044	0.00044	0.00044
	(!A1 * B0 * C0 * !YN)	-0.00032	-0.00028	-0.00022
	(!A1 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00044	0.00044	0.00046
	(!A1 * !B0 * C0 * !YN)	-0.00038	-0.00038	-0.00038
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !YN)	0.00003	0.00003	0.00005
	(!A1 * !B0 * C0 * !YN)	0.00036	0.00038	0.00038
	(!A1 * !B0 * !C0 * YN)	-0.00039	-0.00039	-0.00039
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A1 * !B0 * !C0 * YN)	0.00038	0.00039	0.00039

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7R	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00012	0.00012	0.00012
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !YN)	-0.00049	-0.00049	-0.00048
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00008	0.00008	0.00008
	(A1 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !YN)	-0.00049	-0.00048	-0.00048
	(A1 * !B0 * C0 * !YN)	0.00032	0.00032	0.00033
	(A1 * !B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	0.00000
	(A1 * !B0 * C0 * !YN)	-0.00044	-0.00044	-0.00043
	(A1 * !B0 * !C0 * YN)	0.00032	0.00032	0.00033
	(A1 * !B0 * !C0 * YN)	0.00002	0.00003	0.00004
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	-0.00044	-0.00044	-0.00043
	(!A1 * B0 * C0 * !YN)	0.00032	0.00032	0.00032
	(!A1 * B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(!A1 * B0 * C0 * !YN)	-0.00044	-0.00043	-0.00043
	(!A1 * !B0 * C0 * !YN)	0.00038	0.00038	0.00039
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00005	-0.00003	-0.00003
	(!A1 * !B0 * C0 * !YN)	-0.00038	-0.00036	-0.00033
	(!A1 * !B0 * !C0 * YN)	0.00039	0.00040	0.00041
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A1 * !B0 * !C0 * YN)	-0.00038	-0.00035	-0.00032

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7R	(A0 * B0 * C0 * !YN)	-0.00026	-0.00024	-0.00019
	(A0 * B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00050	0.00051	0.00051
	(A0 * B0 * !C0 * !YN)	-0.00027	-0.00024	-0.00019
	(A0 * B0 * !C0 * !YN)	-0.00003	-0.00003	-0.00003
	(A0 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	0.00050	0.00051	0.00051
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00027	-0.00025	-0.00021
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00002
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00050	0.00050	0.00051
	(!A0 * B0 * C0 * !YN)	-0.00025	-0.00022	-0.00017
	(!A0 * B0 * C0 * !YN)	-0.00005	-0.00004	-0.00003
	(!A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	0.00050	0.00051	0.00051
	(!A0 * !B0 * C0 * !YN)	-0.00033	-0.00033	-0.00033
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(!A0 * !B0 * C0 * !YN)	0.00044	0.00044	0.00045
	(!A0 * !B0 * !C0 * YN)	-0.00034	-0.00034	-0.00033
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * !C0 * YN)	0.00002	0.00002	0.00002
	(!A0 * !B0 * !C0 * YN)	0.00044	0.00045	0.00045

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7R	(A0 * B0 * C0 * !YN)	0.00026	0.00026	0.00026
	(A0 * B0 * C0 * !YN)	0.00003	0.00003	0.00003
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	-0.00050	-0.00050	-0.00050
	(A0 * B0 * !C0 * !YN)	0.00027	0.00027	0.00027
	(A0 * B0 * !C0 * !YN)	0.00003	0.00003	0.00003
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !YN)	-0.00050	-0.00050	-0.00049
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00027	0.00027	0.00028
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00002	0.00003	0.00003
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00050	-0.00050	-0.00050
	(!A0 * B0 * C0 * !YN)	0.00025	0.00025	0.00025
	(!A0 * B0 * C0 * !YN)	0.00004	0.00004	0.00005
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN)	-0.00050	-0.00050	-0.00049
	(!A0 * !B0 * C0 * !YN)	0.00033	0.00033	0.00033
	(!A0 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * C0 * !YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * C0 * !YN)	-0.00044	-0.00042	-0.00039
	(!A0 * !B0 * !C0 * YN)	0.00034	0.00035	0.00036
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00002	-0.00002	-0.00002
	(!A0 * !B0 * !C0 * YN)	-0.00044	-0.00042	-0.00037

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7R	(A0 * C0 * !YN)	-0.00027	-0.00023	-0.00018
	(A0 * C0 * !YN)	-0.00004	-0.00003	-0.00003
	(A0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * C0 * !YN)	0.00051	0.00052	0.00054
	(!A0 * A1 * C0 * !YN)	-0.00026	-0.00022	-0.00017
	(!A0 * A1 * C0 * !YN)	-0.00004	-0.00004	-0.00003
	(!A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * !YN)	0.00051	0.00052	0.00053
	(!A0 * !A1 * C0 * !YN)	-0.00035	-0.00035	-0.00034
	(!A0 * !A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !YN)	0.00002	0.00003	0.00003
	(!A0 * !A1 * C0 * !YN)	0.00045	0.00046	0.00046
	(!A0 * !A1 * !C0 * YN)	-0.00050	-0.00050	-0.00049
	(!A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * YN)	0.00005	0.00005	0.00005
	(!A0 * !A1 * !C0 * YN)	0.00014	0.00014	0.00014

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7R	(A0 * C0 * !YN)	0.00027	0.00027	0.00027
	(A0 * C0 * !YN)	0.00003	0.00003	0.00004
	(A0 * C0 * !YN)	-0.00001	-0.00001	-0.00000
	(A0 * C0 * !YN)	-0.00052	-0.00051	-0.00051
	(!A0 * A1 * C0 * !YN)	0.00026	0.00026	0.00026
	(!A0 * A1 * C0 * !YN)	0.00003	0.00004	0.00004
	(!A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * !YN)	-0.00052	-0.00051	-0.00051
	(!A0 * !A1 * C0 * !YN)	0.00034	0.00035	0.00035
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00003	-0.00003	-0.00002
	(!A0 * !A1 * C0 * !YN)	-0.00046	-0.00044	-0.00040
	(!A0 * !A1 * !C0 * YN)	0.00050	0.00050	0.00050
	(!A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * !C0 * YN)	-0.00005	-0.00005	-0.00005
	(!A0 * !A1 * !C0 * YN)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7R	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(A0 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !YN)	0.00062	0.00063	0.00063
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00005	-0.00005	-0.00005
	(!A0 * A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !YN)	0.00062	0.00063	0.00063

Passive power(pJ) for C0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X3H7R	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00005	0.00005	0.00005
	(A0 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !YN)	-0.00063	-0.00062	-0.00062
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00005	0.00005	0.00005
	(!A0 * A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !YN)	-0.00063	-0.00063	-0.00062

OAOI211X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

2-1-1 OAOI
ZN=(!(((A1|A2)&B)|(C))

Truth Table

INPUT				OUTPUT
A0	A1	B0	C0	YN
0	0	x	0	1
x	x	x	1	0
x	1	0	0	1
x	1	1	x	0
1	x	0	0	1
1	x	1	x	0

Footprint

Cell Name	Area
OAOI211X4H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A0	A1	B0	C0	YN
OAOI211X4H7R	0.00177	0.00175	0.00191	0.00192	0.05130

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OAOI211X4H7R	0.00000	0.38840	1.03668

Delay Information

Delay(ns) to YN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X4H7R	A0->YN (FR)	0.04235	0.19741	0.65533
	A1->YN (FR)	0.04512	0.19394	0.61944
	B0->YN (FR)	0.02541	0.14062	0.50308
	C0->YN (FR)	0.03124	0.18681	0.65214

Delay(ns) to YN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OAOI211X4H7R	A0->YN (RF)	0.01940	0.10220	0.38818
	A1->YN (RF)	0.02025	0.10582	0.39193
	B0->YN (RF)	0.01694	0.10071	0.39478
	C0->YN (RF)	0.00735	0.06302	0.29385

Power Information

Internal switching power(pJ) to YN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X4H7R	A0	0.00302	0.00310	0.00356
	A0	-0.00034	-0.00031	-0.00025
	A0	0.00033	0.00033	0.00034
	A0	-0.00012	-0.00004	0.00042
	A1	0.00360	0.00367	0.00402
	A1	-0.00047	-0.00046	-0.00045
	A1	0.00033	0.00033	0.00034
	A1	-0.00012	-0.00005	0.00030
	B0	0.00292	0.00306	0.00378
	B0	-0.00031	-0.00031	-0.00031
	B0	0.00013	0.00014	0.00017
	B0	-0.00024	-0.00009	0.00077
	C0	0.00214	0.00233	0.00337
	C0	-0.00008	-0.00008	-0.00006
	C0	0.00033	0.00033	0.00033
	C0	-0.00034	-0.00006	0.00146

Internal switching power(pJ) to YN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OAOI211X4H7R	A0	-0.00024	-0.00014	0.00032
	A0	0.00025	0.00031	0.00036
	A0	-0.00034	-0.00033	-0.00033
	A0	0.00285	0.00295	0.00342
	A1	-0.00026	-0.00018	0.00027
	A1	0.00045	0.00046	0.00047
	A1	-0.00034	-0.00033	-0.00033
	A1	0.00328	0.00339	0.00385
	B0	-0.00026	-0.00008	0.00095
	B0	0.00046	0.00046	0.00046
	B0	-0.00014	-0.00014	-0.00013
	B0	0.00255	0.00278	0.00370
	C0	-0.00026	0.00001	0.00147
	C0	0.00007	0.00008	0.00010
	C0	-0.00014	-0.00014	-0.00010
	C0	0.00217	0.00240	0.00358

Passive power(pJ) for A0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7R	(A1 * B0 * C0 * !YN)	-0.00000	-0.00000	0.00000
	(A1 * B0 * C0 * !YN)	-0.00016	-0.00016	-0.00016
	(A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * C0 * !YN)	0.00054	0.00054	0.00054
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	-0.00011	-0.00011	-0.00011
	(A1 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * B0 * !C0 * !YN)	0.00053	0.00054	0.00054
	(A1 * !B0 * C0 * !YN)	-0.00040	-0.00037	-0.00032
	(A1 * !B0 * C0 * !YN)	-0.00004	-0.00004	-0.00004
	(A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * C0 * !YN)	0.00049	0.00049	0.00050
	(A1 * !B0 * !C0 * YN)	-0.00040	-0.00037	-0.00032
	(A1 * !B0 * !C0 * YN)	-0.00004	-0.00004	-0.00003
	(A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A1 * !B0 * !C0 * YN)	0.00049	0.00049	0.00050
	(!A1 * B0 * C0 * !YN)	-0.00039	-0.00034	-0.00027
	(!A1 * B0 * C0 * !YN)	-0.00004	-0.00004	-0.00004
	(!A1 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * B0 * C0 * !YN)	0.00049	0.00050	0.00052
	(!A1 * !B0 * C0 * !YN)	-0.00047	-0.00047	-0.00047
	(!A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * C0 * !YN)	0.00003	0.00003	0.00004
	(!A1 * !B0 * C0 * !YN)	0.00042	0.00042	0.00042
	(!A1 * !B0 * !C0 * YN)	-0.00047	-0.00047	-0.00047
	(!A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A1 * !B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A1 * !B0 * !C0 * YN)	0.00043	0.00044	0.00044

Passive power(pJ) for A0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7R	(A1 * B0 * C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * C0 * !YN)	0.00016	0.00016	0.00016
	(A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * C0 * !YN)	-0.00054	-0.00053	-0.00053
	(A1 * B0 * !C0 * !YN)	0.00000	0.00000	0.00000
	(A1 * B0 * !C0 * !YN)	0.00011	0.00011	0.00011
	(A1 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * B0 * !C0 * !YN)	-0.00054	-0.00053	-0.00053
	(A1 * !B0 * C0 * !YN)	0.00039	0.00040	0.00040
	(A1 * !B0 * C0 * !YN)	0.00004	0.00004	0.00004
	(A1 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * C0 * !YN)	-0.00049	-0.00049	-0.00048
	(A1 * !B0 * !C0 * YN)	0.00039	0.00040	0.00040
	(A1 * !B0 * !C0 * YN)	0.00003	0.00004	0.00004
	(A1 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A1 * !B0 * !C0 * YN)	-0.00049	-0.00049	-0.00048
	(!A1 * B0 * C0 * !YN)	0.00039	0.00039	0.00040
	(!A1 * B0 * C0 * !YN)	0.00004	0.00004	0.00004
	(!A1 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A1 * B0 * C0 * !YN)	-0.00049	-0.00049	-0.00048
	(!A1 * !B0 * C0 * !YN)	0.00047	0.00047	0.00047
	(!A1 * !B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A1 * !B0 * C0 * !YN)	-0.00004	-0.00003	-0.00003
	(!A1 * !B0 * C0 * !YN)	-0.00042	-0.00040	-0.00037
	(!A1 * !B0 * !C0 * YN)	0.00047	0.00048	0.00050
	(!A1 * !B0 * !C0 * YN)	0.00001	0.00001	0.00002
	(!A1 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A1 * !B0 * !C0 * YN)	-0.00043	-0.00040	-0.00035

Passive power(pJ) for A1 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7R	(A0 * B0 * C0 * !YN)	-0.00033	-0.00030	-0.00025
	(A0 * B0 * C0 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * C0 * !YN)	0.00056	0.00056	0.00057
	(A0 * B0 * !C0 * !YN)	-0.00033	-0.00030	-0.00024
	(A0 * B0 * !C0 * !YN)	-0.00004	-0.00004	-0.00004
	(A0 * B0 * !C0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !C0 * !YN)	0.00056	0.00056	0.00057
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00033	-0.00031	-0.00027
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00004	-0.00004	-0.00004
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00056	0.00056	0.00057
	(!A0 * B0 * C0 * !YN)	-0.00032	-0.00028	-0.00021
	(!A0 * B0 * C0 * !YN)	-0.00005	-0.00004	-0.00004
	(!A0 * B0 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * B0 * C0 * !YN)	0.00056	0.00056	0.00057
	(!A0 * !B0 * C0 * !YN)	-0.00041	-0.00041	-0.00041
	(!A0 * !B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !B0 * C0 * !YN)	0.00003	0.00004	0.00005
	(!A0 * !B0 * C0 * !YN)	0.00048	0.00049	0.00050
	(!A0 * !B0 * !C0 * YN)	-0.00041	-0.00041	-0.00041
	(!A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00000
	(!A0 * !B0 * !C0 * YN)	0.00003	0.00003	0.00003
	(!A0 * !B0 * !C0 * YN)	0.00050	0.00050	0.00051

Passive power(pJ) for A1 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7R	(A0 * B0 * C0 * !YN)	0.00033	0.00033	0.00033
	(A0 * B0 * C0 * !YN)	0.00004	0.00004	0.00004
	(A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * C0 * !YN)	-0.00056	-0.00056	-0.00056
	(A0 * B0 * !C0 * !YN)	0.00034	0.00034	0.00034
	(A0 * B0 * !C0 * !YN)	0.00004	0.00004	0.00004
	(A0 * B0 * !C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !C0 * !YN)	-0.00056	-0.00056	-0.00056
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00033	0.00033	0.00034
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	0.00004	0.00004	0.00004
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(A0 * !B0 * C0 * !YN) + (A0 * !B0 * !C0 * YN)	-0.00056	-0.00056	-0.00055
	(!A0 * B0 * C0 * !YN)	0.00031	0.00032	0.00032
	(!A0 * B0 * C0 * !YN)	0.00004	0.00005	0.00005
	(!A0 * B0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * B0 * C0 * !YN)	-0.00056	-0.00056	-0.00056
	(!A0 * !B0 * C0 * !YN)	0.00041	0.00041	0.00041
	(!A0 * !B0 * C0 * !YN)	0.00001	0.00001	0.00002
	(!A0 * !B0 * C0 * !YN)	-0.00005	-0.00004	-0.00003
	(!A0 * !B0 * C0 * !YN)	-0.00049	-0.00047	-0.00043
	(!A0 * !B0 * !C0 * YN)	0.00042	0.00042	0.00044
	(!A0 * !B0 * !C0 * YN)	0.00001	0.00001	0.00001
	(!A0 * !B0 * !C0 * YN)	-0.00003	-0.00003	-0.00003
	(!A0 * !B0 * !C0 * YN)	-0.00049	-0.00046	-0.00042

Passive power(pJ) for B0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7R	(A0 * C0 * !YN)	-0.00034	-0.00030	-0.00023
	(A0 * C0 * !YN)	-0.00005	-0.00005	-0.00004
	(A0 * C0 * !YN)	0.00001	0.00001	0.00002
	(A0 * C0 * !YN)	0.00057	0.00058	0.00060
	(!A0 * A1 * C0 * !YN)	-0.00032	-0.00028	-0.00021
	(!A0 * A1 * C0 * !YN)	-0.00005	-0.00005	-0.00003
	(!A0 * A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A1 * C0 * !YN)	0.00057	0.00058	0.00058
	(!A0 * !A1 * C0 * !YN)	-0.00043	-0.00042	-0.00042
	(!A0 * !A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * C0 * !YN)	0.00003	0.00003	0.00004
	(!A0 * !A1 * C0 * !YN)	0.00051	0.00051	0.00051
	(!A0 * !A1 * !C0 * YN)	-0.00059	-0.00059	-0.00058
	(!A0 * !A1 * !C0 * YN)	-0.00001	-0.00001	-0.00001
	(!A0 * !A1 * !C0 * YN)	0.00006	0.00006	0.00006
	(!A0 * !A1 * !C0 * YN)	0.00014	0.00014	0.00014

Passive power(pJ) for B0 falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7R	(A0 * C0 * !YN)	0.00034	0.00034	0.00034
	(A0 * C0 * !YN)	0.00004	0.00005	0.00005
	(A0 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * C0 * !YN)	-0.00057	-0.00057	-0.00057
	(!A0 * A1 * C0 * !YN)	0.00032	0.00032	0.00033
	(!A0 * A1 * C0 * !YN)	0.00003	0.00005	0.00005
	(!A0 * A1 * C0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * C0 * !YN)	-0.00058	-0.00057	-0.00057
	(!A0 * !A1 * C0 * !YN)	0.00042	0.00042	0.00043
	(!A0 * !A1 * C0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * !A1 * C0 * !YN)	-0.00004	-0.00003	-0.00003
	(!A0 * !A1 * C0 * !YN)	-0.00051	-0.00048	-0.00044
	(!A0 * !A1 * !C0 * YN)	0.00058	0.00059	0.00059
	(!A0 * !A1 * !C0 * YN)	0.00001	0.00001	0.00002
	(!A0 * !A1 * !C0 * YN)	-0.00006	-0.00006	-0.00006
	(!A0 * !A1 * !C0 * YN)	-0.00014	-0.00014	-0.00014

Passive power(pJ) for C0 rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7R	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	-0.00007	-0.00007	-0.00007
	(A0 * B0 * !YN)	0.00001	0.00001	0.00001
	(A0 * B0 * !YN)	0.00070	0.00071	0.00071
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	-0.00007	-0.00007	-0.00007
	(!A0 * A1 * B0 * !YN)	0.00001	0.00001	0.00001
	(!A0 * A1 * B0 * !YN)	0.00070	0.00071	0.00071

Passive power(pJ) for C0 falling (conditional):

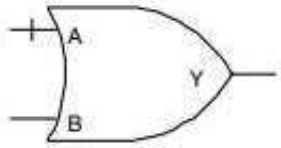
Cell Name	When	Power(pJ)		
		min	avg	max
OAOI211X4H7R	(A0 * B0 * !YN)	0.00000	0.00000	0.00000
	(A0 * B0 * !YN)	0.00007	0.00007	0.00007
	(A0 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(A0 * B0 * !YN)	-0.00071	-0.00070	-0.00070
	(!A0 * A1 * B0 * !YN)	0.00000	0.00000	0.00000
	(!A0 * A1 * B0 * !YN)	0.00007	0.00007	0.00007
	(!A0 * A1 * B0 * !YN)	-0.00001	-0.00001	-0.00001
	(!A0 * A1 * B0 * !YN)	-0.00071	-0.00070	-0.00070

OR2X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X0P5H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X0P5H7R	0.00072	0.00077	0.04257

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X0P5H7R	0.00000	0.20679	0.32432

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X0P5H7R	A->Y (RR)	0.03096	0.16808	0.50140
	B->Y (RR)	0.02982	0.16473	0.49414

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X0P5H7R	A->Y (FF)	0.05057	0.16714	0.45398
	B->Y (FF)	0.04855	0.16722	0.45672

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X0P5H7R	A	0.00032	0.00042	0.00076
	A	0.00004	0.00004	0.00004
	A	-0.00002	-0.00002	0.00001
	A	0.00103	0.00114	0.00144
	B	0.00032	0.00043	0.00077
	B	-0.00000	-0.00000	0.00000
	B	-0.00002	-0.00002	-0.00002
	B	0.00093	0.00104	0.00137

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X0P5H7R	A	0.00108	0.00117	0.00142
	A	-0.00004	-0.00004	-0.00004
	A	0.00002	0.00002	0.00002
	A	0.00035	0.00044	0.00069
	B	0.00097	0.00108	0.00144
	B	-0.00000	0.00000	0.00000
	B	0.00002	0.00002	0.00002
	B	0.00036	0.00047	0.00083

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P5H7R	(B * Y)	-0.00009	-0.00008	-0.00007
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P5H7R	(B * Y)	0.00009	0.00009	0.00009
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00025	-0.00025	-0.00024

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P5H7R	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00002	-0.00002	-0.00002
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for B falling (conditional):

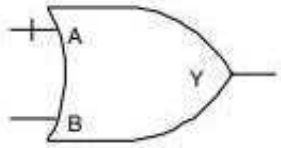
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P5H7R	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00002	0.00002	0.00002
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00028	-0.00028	-0.00028

OR2X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X0P7H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X0P7H7R	0.00073	0.00078	0.04827

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X0P7H7R	0.00000	0.22179	0.33127

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X0P7H7R	A->Y (RR)	0.03046	0.16820	0.50290
	B->Y (RR)	0.02931	0.16487	0.49539

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X0P7H7R	A->Y (FF)	0.05062	0.16788	0.45541
	B->Y (FF)	0.04860	0.16800	0.45888

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X0P7H7R	A	0.00036	0.00046	0.00080
	A	0.00004	0.00004	0.00004
	A	-0.00002	-0.00002	-0.00001
	A	0.00108	0.00119	0.00149
	B	0.00035	0.00047	0.00080
	B	-0.00000	-0.00000	-0.00000
	B	-0.00002	-0.00002	-0.00001
	B	0.00096	0.00108	0.00141

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X0P7H7R	A	0.00111	0.00120	0.00145
	A	-0.00004	-0.00004	-0.00004
	A	0.00001	0.00002	0.00002
	A	0.00038	0.00046	0.00071
	B	0.00100	0.00111	0.00148
	B	0.00000	0.00000	0.00000
	B	0.00001	0.00002	0.00002
	B	0.00039	0.00050	0.00087

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P7H7R	(B * Y)	-0.00009	-0.00008	-0.00007
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00025	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P7H7R	(B * Y)	0.00009	0.00009	0.00009
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P7H7R	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00002	-0.00002	-0.00002
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00028	0.00029	0.00029

Passive power(pJ) for B falling (conditional):

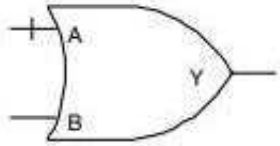
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X0P7H7R	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00002	0.00002	0.00002
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00029	-0.00028	-0.00028

OR2X12H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X12H7R	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X12H7R	0.00182	0.00191	0.46381

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X12H7R	0.00000	1.54817	1.63611

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X12H7R	A->Y (RR)	0.02701	0.17233	0.52062
	B->Y (RR)	0.02537	0.16840	0.51222

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X12H7R	A->Y (FF)	0.05233	0.18130	0.48288
	B->Y (FF)	0.04887	0.17961	0.48416

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X12H7R	A	0.00283	0.00335	0.00526
	A	-0.00001	0.00000	0.00002
	A	0.00000	0.00005	0.00008
	A	0.00460	0.00512	0.00704
	B	0.00287	0.00337	0.00547
	B	-0.00017	-0.00016	-0.00012
	B	0.00004	0.00005	0.00006
	B	0.00412	0.00467	0.00673

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X12H7R	A	0.00515	0.00549	0.00720
	A	-0.00001	0.00000	0.00004
	A	-0.00005	-0.00005	0.00000
	A	0.00331	0.00363	0.00536
	B	0.00450	0.00500	0.00756
	B	0.00012	0.00016	0.00017
	B	-0.00005	-0.00005	-0.00004
	B	0.00323	0.00372	0.00631

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X12H7R	(B * Y)	-0.00034	-0.00030	-0.00025
	(B * Y)	-0.00004	-0.00004	-0.00003
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	0.00056	0.00058	0.00060

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X12H7R	(B * Y)	0.00035	0.00035	0.00035
	(B * Y)	0.00003	0.00004	0.00004
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	-0.00056	-0.00055	-0.00055

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X12H7R	(A * Y)	-0.00000	0.00000	0.00000
	(A * Y)	-0.00006	-0.00006	-0.00006
	(A * Y)	0.00001	0.00001	0.00001
	(A * Y)	0.00071	0.00071	0.00071

Passive power(pJ) for B falling (conditional):

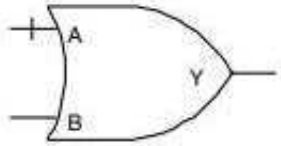
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X12H7R	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00007	0.00007	0.00007
	(A * Y)	-0.00001	-0.00001	-0.00001
	(A * Y)	-0.00071	-0.00071	-0.00070

OR2X16H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X16H7R	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X16H7R	0.00267	0.00279	0.61811

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X16H7R	0.00000	2.11805	2.21030

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X16H7R	A->Y (RR)	0.02537	0.16897	0.51371
	B->Y (RR)	0.02385	0.16522	0.50607

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X16H7R	A->Y (FF)	0.04871	0.17577	0.47445
	B->Y (FF)	0.04563	0.17461	0.47608

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X16H7R	A	0.00372	0.00444	0.00711
	A	0.00003	0.00003	0.00004
	A	0.00004	0.00005	0.00005
	A	0.00640	0.00714	0.00980
	B	0.00376	0.00451	0.00741
	B	-0.00021	-0.00020	-0.00012
	B	0.00004	0.00005	0.00007
	B	0.00568	0.00646	0.00934

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X16H7R	A	0.00708	0.00758	0.00992
	A	-0.00004	-0.00003	-0.00003
	A	-0.00005	-0.00005	-0.00003
	A	0.00430	0.00478	0.00714
	B	0.00620	0.00693	0.01039
	B	0.00012	0.00020	0.00021
	B	-0.00005	-0.00005	-0.00004
	B	0.00427	0.00497	0.00847

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X16H7R	(B * Y)	-0.00050	-0.00045	-0.00037
	(B * Y)	-0.00006	-0.00005	-0.00005
	(B * Y)	0.00002	0.00002	0.00002
	(B * Y)	0.00082	0.00085	0.00088

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X16H7R	(B * Y)	0.00052	0.00052	0.00053
	(B * Y)	0.00005	0.00005	0.00006
	(B * Y)	-0.00002	-0.00002	-0.00001
	(B * Y)	-0.00082	-0.00081	-0.00081

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X16H7R	(A * Y)	-0.00000	0.00000	0.00000
	(A * Y)	-0.00010	-0.00010	-0.00010
	(A * Y)	0.00002	0.00002	0.00002
	(A * Y)	0.00102	0.00103	0.00103

Passive power(pJ) for B falling (conditional):

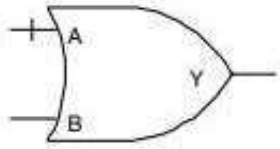
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X16H7R	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00011	0.00011	0.00011
	(A * Y)	-0.00002	-0.00002	-0.00002
	(A * Y)	-0.00103	-0.00102	-0.00101

OR2X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X1H7R	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X1H7R	0.00073	0.00078	0.05763

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X1H7R	0.00000	0.24270	0.34222

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X1H7R	A->Y (RR)	0.02921	0.16772	0.50379
	B->Y (RR)	0.02805	0.16437	0.49715

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X1H7R	A->Y (FF)	0.04993	0.16988	0.46360
	B->Y (FF)	0.04788	0.17002	0.46679

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X1H7R	A	0.00038	0.00049	0.00081
	A	0.00003	0.00003	0.00003
	A	-0.00001	-0.00001	-0.00001
	A	0.00110	0.00120	0.00152
	B	0.00038	0.00049	0.00084
	B	-0.00001	-0.00001	-0.00000
	B	-0.00001	-0.00001	-0.00000
	B	0.00097	0.00109	0.00143

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X1H7R	A	0.00113	0.00121	0.00147
	A	-0.00003	-0.00003	-0.00003
	A	0.00001	0.00001	0.00002
	A	0.00040	0.00048	0.00077
	B	0.00101	0.00113	0.00151
	B	0.00001	0.00001	0.00001
	B	0.00001	0.00001	0.00001
	B	0.00042	0.00053	0.00091

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1H7R	(B * Y)	-0.00009	-0.00008	-0.00007
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1H7R	(B * Y)	0.00008	0.00009	0.00009
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00026	-0.00026	-0.00025

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1H7R	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00002	-0.00002	-0.00002
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for B falling (conditional):

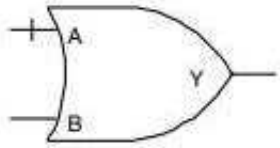
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1H7R	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00002	0.00002	0.00002
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00028	-0.00028	-0.00028

OR2X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X1P4H7R	1.40000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X1P4H7R	0.00076	0.00077	0.06581

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X1P4H7R	0.00000	0.26310	0.35178

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X1P4H7R	A->Y (RR)	0.02953	0.16925	0.50751
	B->Y (RR)	0.02823	0.16579	0.50047

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X1P4H7R	A->Y (FF)	0.05150	0.17270	0.46769
	B->Y (FF)	0.04904	0.17267	0.47103

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X1P4H7R	A	0.00044	0.00055	0.00087
	A	0.00003	0.00003	0.00003
	A	-0.00001	-0.00001	-0.00001
	A	0.00115	0.00126	0.00158
	B	0.00044	0.00055	0.00091
	B	-0.00001	-0.00001	-0.00000
	B	-0.00001	-0.00001	-0.00001
	B	0.00102	0.00114	0.00149

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X1P4H7R	A	0.00119	0.00128	0.00155
	A	-0.00003	-0.00003	-0.00003
	A	0.00001	0.00001	0.00001
	A	0.00046	0.00055	0.00082
	B	0.00107	0.00119	0.00158
	B	0.00000	0.00001	0.00001
	B	0.00001	0.00001	0.00001
	B	0.00048	0.00060	0.00100

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1P4H7R	(B * Y)	-0.00009	-0.00008	-0.00007
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00026	0.00027	0.00027

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1P4H7R	(B * Y)	0.00009	0.00009	0.00009
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1P4H7R	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00002	-0.00002	-0.00002
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for B falling (conditional):

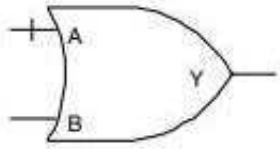
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X1P4H7R	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00002	0.00002	0.00002
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00028	-0.00028	-0.00028

OR2X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X2H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X2H7R	0.00067	0.00080	0.08513

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X2H7R	0.00000	0.32295	0.36830

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X2H7R	A->Y (RR)	0.03104	0.17424	0.51936
	B->Y (RR)	0.03027	0.17158	0.51273

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X2H7R	A->Y (FF)	0.05575	0.18003	0.47819
	B->Y (FF)	0.05479	0.18152	0.48355

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X2H7R	A	0.00062	0.00075	0.00113
	A	0.00002	0.00002	0.00002
	A	-0.00000	-0.00000	-0.00000
	A	0.00128	0.00140	0.00178
	B	0.00062	0.00075	0.00115
	B	-0.00002	-0.00002	-0.00002
	B	-0.00000	-0.00000	-0.00000
	B	0.00119	0.00132	0.00172

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X2H7R	A	0.00139	0.00148	0.00180
	A	-0.00002	-0.00002	-0.00002
	A	0.00000	0.00000	0.00001
	A	0.00070	0.00080	0.00113
	B	0.00128	0.00141	0.00188
	B	0.00002	0.00002	0.00004
	B	0.00000	0.00000	0.00001
	B	0.00072	0.00084	0.00131

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X2H7R	(B * Y)	-0.00009	-0.00008	-0.00007
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00023	0.00023	0.00023

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X2H7R	(B * Y)	0.00009	0.00009	0.00009
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X2H7R	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00002	-0.00002	-0.00002
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for B falling (conditional):

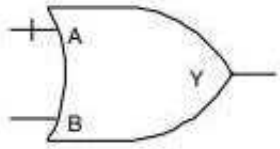
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X2H7R	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00002	0.00002	0.00002
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00029	-0.00029	-0.00029

OR2X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X3H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X3H7R	0.00083	0.00088	0.12046

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X3H7R	0.00000	0.44098	0.49446

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X3H7R	A->Y (RR)	0.02847	0.17106	0.51483
	B->Y (RR)	0.02716	0.16778	0.50814

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X3H7R	A->Y (FF)	0.05137	0.17576	0.47313
	B->Y (FF)	0.04901	0.17561	0.47573

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X3H7R	A	0.00078	0.00094	0.00145
	A	0.00003	0.00003	0.00003
	A	-0.00000	-0.00000	0.00000
	A	0.00158	0.00175	0.00225
	B	0.00078	0.00095	0.00151
	B	-0.00003	-0.00003	-0.00002
	B	-0.00000	-0.00000	0.00002
	B	0.00143	0.00160	0.00216

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X3H7R	A	0.00173	0.00185	0.00227
	A	-0.00003	-0.00003	-0.00003
	A	0.00000	0.00000	0.00000
	A	0.00091	0.00102	0.00145
	B	0.00156	0.00173	0.00237
	B	0.00002	0.00003	0.00003
	B	-0.00000	0.00000	0.00000
	B	0.00092	0.00107	0.00173

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X3H7R	(B * Y)	-0.00011	-0.00011	-0.00009
	(B * Y)	-0.00002	-0.00001	-0.00001
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X3H7R	(B * Y)	0.00011	0.00012	0.00012
	(B * Y)	0.00001	0.00001	0.00002
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00028	-0.00028	-0.00027

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X3H7R	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00003	-0.00003	-0.00003
	(A * Y)	0.00000	0.00001	0.00001
	(A * Y)	0.00032	0.00032	0.00032

Passive power(pJ) for B falling (conditional):

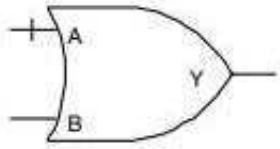
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X3H7R	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00003	0.00003	0.00003
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00032	-0.00032	-0.00031

OR2X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X4H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X4H7R	0.00078	0.00092	0.16301

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X4H7R	0.00000	0.57896	0.60261

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X4H7R	A->Y (RR)	0.02846	0.17328	0.52158
	B->Y (RR)	0.02780	0.17087	0.51577

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X4H7R	A->Y (FF)	0.05340	0.18086	0.48210
	B->Y (FF)	0.05257	0.18209	0.48646

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X4H7R	A	0.00113	0.00134	0.00202
	A	0.00002	0.00002	0.00002
	A	0.00000	0.00001	0.00001
	A	0.00193	0.00214	0.00282
	B	0.00113	0.00134	0.00207
	B	-0.00005	-0.00005	-0.00002
	B	0.00000	0.00001	0.00001
	B	0.00176	0.00198	0.00270

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X4H7R	A	0.00211	0.00226	0.00285
	A	-0.00002	-0.00002	0.00000
	A	-0.00001	-0.00001	-0.00000
	A	0.00127	0.00143	0.00203
	B	0.00196	0.00216	0.00304
	B	0.00002	0.00005	0.00006
	B	-0.00001	-0.00001	-0.00000
	B	0.00133	0.00151	0.00241

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X4H7R	(B * Y)	-0.00012	-0.00011	-0.00010
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	0.00000	0.00001	0.00001
	(B * Y)	0.00028	0.00028	0.00029

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X4H7R	(B * Y)	0.00012	0.00013	0.00013
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	-0.00001	-0.00001	-0.00000
	(B * Y)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X4H7R	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00003	-0.00003	-0.00003
	(A * Y)	0.00001	0.00001	0.00001
	(A * Y)	0.00034	0.00034	0.00034

Passive power(pJ) for B falling (conditional):

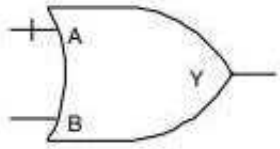
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X4H7R	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00003	0.00003	0.00003
	(A * Y)	-0.00001	-0.00001	-0.00000
	(A * Y)	-0.00034	-0.00034	-0.00033

OR2X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X6H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X6H7R	0.00086	0.00101	0.23170

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X6H7R	0.00000	0.77408	0.81806

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X6H7R	A->Y (RR)	0.02754	0.17227	0.52004
	B->Y (RR)	0.02673	0.16961	0.51365

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X6H7R	A->Y (FF)	0.05236	0.18074	0.48237
	B->Y (FF)	0.05118	0.18143	0.48610

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X6H7R	A	0.00147	0.00173	0.00264
	A	-0.00000	-0.00000	0.00000
	A	0.00000	0.00003	0.00003
	A	0.00229	0.00256	0.00347
	B	0.00146	0.00171	0.00270
	B	-0.00008	-0.00008	-0.00008
	B	0.00000	0.00003	0.00003
	B	0.00210	0.00236	0.00333

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X6H7R	A	0.00250	0.00267	0.00350
	A	0.00000	0.00000	0.00002
	A	-0.00003	-0.00003	0.00000
	A	0.00164	0.00181	0.00264
	B	0.00231	0.00255	0.00376
	B	0.00008	0.00008	0.00008
	B	-0.00003	-0.00003	0.00000
	B	0.00167	0.00190	0.00313

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X6H7R	(B * Y)	-0.00015	-0.00013	-0.00012
	(B * Y)	-0.00002	-0.00002	-0.00002
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	0.00030	0.00030	0.00031

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X6H7R	(B * Y)	0.00015	0.00015	0.00015
	(B * Y)	0.00002	0.00002	0.00002
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	-0.00030	-0.00029	-0.00029

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X6H7R	(A * Y)	-0.00000	0.00000	0.00000
	(A * Y)	-0.00004	-0.00004	-0.00004
	(A * Y)	0.00001	0.00001	0.00001
	(A * Y)	0.00036	0.00036	0.00036

Passive power(pJ) for B falling (conditional):

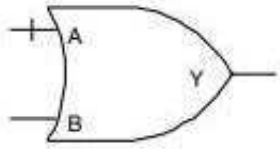
Cell Name	When	Power(pJ)		
		min	avg	max
OR2X6H7R	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00004	0.00004	0.00004
	(A * Y)	-0.00001	-0.00001	-0.00001
	(A * Y)	-0.00036	-0.00036	-0.00035

OR2X8H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR2 cell provides the logical OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
x	1	1
1	x	1

Footprint

Cell Name	Area
OR2X8H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
OR2X8H7R	0.00163	0.00173	0.30921

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR2X8H7R	0.00000	1.09206	1.17744

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X8H7R	A->Y (RR)	0.02535	0.16786	0.51089
	B->Y (RR)	0.02373	0.16371	0.50257

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR2X8H7R	A->Y (FF)	0.04801	0.17347	0.46965
	B->Y (FF)	0.04447	0.17146	0.47078

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X8H7R	A	0.00182	0.00221	0.00354
	A	0.00003	0.00003	0.00003
	A	0.00001	0.00001	0.00001
	A	0.00347	0.00386	0.00519
	B	0.00184	0.00225	0.00372
	B	-0.00010	-0.00010	-0.00005
	B	0.00000	0.00001	0.00002
	B	0.00306	0.00349	0.00495

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR2X8H7R	A	0.00388	0.00414	0.00526
	A	-0.00003	-0.00003	-0.00003
	A	-0.00001	-0.00001	-0.00000
	A	0.00217	0.00241	0.00355
	B	0.00332	0.00371	0.00544
	B	0.00005	0.00010	0.00013
	B	-0.00001	-0.00001	-0.00000
	B	0.00209	0.00246	0.00421

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X8H7R	(B * Y)	-0.00029	-0.00025	-0.00021
	(B * Y)	-0.00003	-0.00003	-0.00003
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	0.00052	0.00053	0.00056

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X8H7R	(B * Y)	0.00029	0.00030	0.00030
	(B * Y)	0.00003	0.00003	0.00003
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	-0.00052	-0.00051	-0.00051

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X8H7R	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00005	-0.00005	-0.00005
	(A * Y)	0.00001	0.00001	0.00001
	(A * Y)	0.00065	0.00066	0.00066

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR2X8H7R	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00005	0.00005	0.00006
	(A * Y)	-0.00001	-0.00001	-0.00001
	(A * Y)	-0.00066	-0.00065	-0.00064

OR3X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X0P5H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X0P5H7R	0.00069	0.00067	0.00074	0.04259

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X0P5H7R	0.00000	0.19798	0.46448

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X0P5H7R	A->Y (RR)	0.03306	0.17306	0.51124
	B->Y (RR)	0.03183	0.16987	0.50374
	C->Y (RR)	0.03079	0.16672	0.49696

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X0P5H7R	A->Y (FF)	0.07445	0.19359	0.48405
	B->Y (FF)	0.07132	0.19659	0.49965
	C->Y (FF)	0.06734	0.19349	0.49747

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X0P5H7R	A	0.00031	0.00039	0.00067
	A	0.00008	0.00008	0.00008
	A	-0.00004	-0.00004	-0.00004
	A	0.00122	0.00130	0.00157
	B	0.00032	0.00041	0.00067
	B	0.00004	0.00004	0.00004
	B	-0.00004	-0.00004	-0.00001
	B	0.00106	0.00116	0.00142
	C	0.00032	0.00041	0.00071
	C	-0.00000	-0.00000	0.00000
	C	-0.00004	-0.00004	-0.00004
	C	0.00099	0.00109	0.00138

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X0P5H7R	A	0.00130	0.00135	0.00154
	A	-0.00008	-0.00008	-0.00008
	A	0.00004	0.00004	0.00004
	A	0.00036	0.00041	0.00060
	B	0.00116	0.00122	0.00143
	B	-0.00004	-0.00004	-0.00004
	B	0.00004	0.00004	0.00004
	B	0.00040	0.00046	0.00067
	C	0.00105	0.00114	0.00145
	C	-0.00000	0.00000	0.00000
	C	0.00004	0.00004	0.00004
	C	0.00037	0.00046	0.00077

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7R	(B * C * Y)	-0.00009	-0.00008	-0.00007
	(B * C * Y)	-0.00001	-0.00001	-0.00001
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00025	0.00025	0.00025
	(B * !C * Y)	-0.00009	-0.00008	-0.00008
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00025	0.00025	0.00025
	(!B * C * Y)	-0.00009	-0.00008	-0.00007
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7R	(B * C * Y)	0.00009	0.00009	0.00009
	(B * C * Y)	0.00001	0.00001	0.00001
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00025	-0.00024	-0.00024
	(B * !C * Y)	0.00009	0.00009	0.00009
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00025	-0.00024	-0.00024
	(!B * C * Y)	0.00009	0.00009	0.00009
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00025	-0.00024	-0.00024

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7R	(A * C * Y)	-0.00000	-0.00000	0.00000
	(A * C * Y)	-0.00004	-0.00004	-0.00004
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00020	0.00020	0.00020
	(A * !C * Y)	-0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00020	0.00020	0.00020
	(!A * C * Y)	-0.00008	-0.00008	-0.00006
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00020	0.00020	0.00021

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7R	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00004	0.00004	0.00004
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00020	-0.00020	-0.00020
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00003	0.00003	0.00003
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00020	-0.00020	-0.00020
	(!A * C * Y)	0.00009	0.00009	0.00009
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00020	-0.00020	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7R	(B * Y)	-0.00000	0.00000	0.00000
	(B * Y)	-0.00002	-0.00002	-0.00002
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00027	0.00028	0.00028
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00027	0.00028	0.00028

Passive power(pJ) for C falling (conditional):

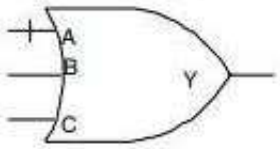
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P5H7R	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00002	0.00002	0.00002
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00028	-0.00028	-0.00027
	(A * !B * Y)	-0.00000	0.00000	0.00000
	(A * !B * Y)	0.00002	0.00002	0.00002
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00028	-0.00028	-0.00027

OR3X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X0P7H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X0P7H7R	0.00072	0.00066	0.00079	0.04839

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X0P7H7R	0.00000	0.21432	0.47144

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X0P7H7R	A->Y (RR)	0.03369	0.17526	0.51644
	B->Y (RR)	0.03214	0.17176	0.50866
	C->Y (RR)	0.03151	0.16912	0.50268

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X0P7H7R	A->Y (FF)	0.07773	0.19856	0.49074
	B->Y (FF)	0.07352	0.20096	0.50707
	C->Y (FF)	0.07104	0.19904	0.50620

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X0P7H7R	A	0.00036	0.00045	0.00071
	A	0.00008	0.00008	0.00008
	A	-0.00004	-0.00004	-0.00003
	A	0.00129	0.00138	0.00165
	B	0.00038	0.00047	0.00073
	B	0.00004	0.00004	0.00004
	B	-0.00004	-0.00004	-0.00003
	B	0.00114	0.00123	0.00150
	C	0.00037	0.00047	0.00075
	C	-0.00000	-0.00000	-0.00000
	C	-0.00004	-0.00004	-0.00003
	C	0.00108	0.00117	0.00146

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X0P7H7R	A	0.00138	0.00144	0.00162
	A	-0.00008	-0.00008	-0.00008
	A	0.00003	0.00004	0.00004
	A	0.00041	0.00047	0.00066
	B	0.00123	0.00130	0.00151
	B	-0.00004	-0.00004	-0.00004
	B	0.00003	0.00004	0.00004
	B	0.00046	0.00052	0.00074
	C	0.00114	0.00123	0.00155
	C	0.00000	0.00000	0.00001
	C	0.00003	0.00004	0.00004
	C	0.00043	0.00052	0.00084

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7R	(B * C * Y)	-0.00008	-0.00008	-0.00007
	(B * C * Y)	-0.00001	-0.00001	-0.00001
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00025	0.00025	0.00025
	(B * !C * Y)	-0.00008	-0.00008	-0.00007
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00025	0.00025	0.00025
	(!B * C * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7R	(B * C * Y)	0.00008	0.00008	0.00008
	(B * C * Y)	0.00001	0.00001	0.00001
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00025	-0.00025	-0.00025
	(B * !C * Y)	0.00008	0.00009	0.00009
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00025	-0.00025	-0.00025
	(!B * C * Y)	0.00008	0.00008	0.00008
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7R	(A * C * Y)	-0.00000	-0.00000	0.00000
	(A * C * Y)	-0.00004	-0.00004	-0.00004
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00019	0.00019	0.00019
	(A * !C * Y)	-0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00019	0.00019	0.00019
	(!A * C * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00019	0.00019	0.00020

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7R	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00004	0.00004	0.00004
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00019	-0.00019	-0.00019
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00003	0.00003	0.00003
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00019	-0.00019	-0.00019
	(!A * C * Y)	0.00009	0.00009	0.00009
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00019	-0.00019	-0.00019

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7R	(B * Y)	-0.00000	0.00000	0.00000
	(B * Y)	-0.00002	-0.00002	-0.00002
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00029	0.00029	0.00029
	(A * !B * Y)	-0.00000	-0.00000	0.00000
	(A * !B * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00029	0.00029	0.00029

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X0P7H7R	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00002	0.00002	0.00002
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00029	-0.00029	-0.00029
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00002	0.00002	0.00002
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00029	-0.00029	-0.00028

OR3X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X1H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X1H7R	0.00070	0.00067	0.00071	0.05751

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X1H7R	0.00000	0.23688	0.48239

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X1H7R	A->Y (RR)	0.03177	0.17299	0.51326
	B->Y (RR)	0.03060	0.16992	0.50609
	C->Y (RR)	0.02933	0.16662	0.49929

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X1H7R	A->Y (FF)	0.07491	0.19774	0.49429
	B->Y (FF)	0.07206	0.20119	0.51111
	C->Y (FF)	0.06718	0.19748	0.50886

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X1H7R	A	0.00039	0.00048	0.00076
	A	0.00007	0.00007	0.00008
	A	-0.00003	-0.00003	-0.00003
	A	0.00128	0.00137	0.00166
	B	0.00040	0.00050	0.00080
	B	0.00003	0.00003	0.00003
	B	-0.00003	-0.00003	-0.00003
	B	0.00113	0.00122	0.00150
	C	0.00040	0.00051	0.00082
	C	-0.00001	-0.00001	-0.00000
	C	-0.00003	-0.00003	-0.00003
	C	0.00104	0.00114	0.00145

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X1H7R	A	0.00136	0.00142	0.00162
	A	-0.00008	-0.00007	-0.00007
	A	0.00003	0.00003	0.00004
	A	0.00044	0.00050	0.00070
	B	0.00122	0.00129	0.00152
	B	-0.00003	-0.00003	-0.00003
	B	0.00003	0.00003	0.00003
	B	0.00048	0.00055	0.00079
	C	0.00109	0.00120	0.00154
	C	0.00000	0.00001	0.00002
	C	0.00003	0.00003	0.00003
	C	0.00047	0.00056	0.00091

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7R	(B * C * Y)	-0.00009	-0.00008	-0.00007
	(B * C * Y)	-0.00001	-0.00001	-0.00001
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00026	0.00026	0.00026
	(B * !C * Y)	-0.00009	-0.00008	-0.00007
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00026	0.00026	0.00026
	(!B * C * Y)	-0.00009	-0.00008	-0.00006
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7R	(B * C * Y)	0.00009	0.00009	0.00009
	(B * C * Y)	0.00001	0.00001	0.00001
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00026	-0.00026	-0.00026
	(B * !C * Y)	0.00009	0.00009	0.00009
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00026	-0.00026	-0.00025
	(!B * C * Y)	0.00008	0.00009	0.00009
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00026	-0.00026	-0.00025

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7R	(A * C * Y)	-0.00000	-0.00000	0.00000
	(A * C * Y)	-0.00004	-0.00004	-0.00004
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00021	0.00021	0.00021
	(A * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !C * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00020	0.00021	0.00021
	(!A * C * Y)	-0.00008	-0.00008	-0.00006
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00020	0.00021	0.00022

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7R	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00004	0.00004	0.00004
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00021	-0.00020	-0.00020
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00003	0.00003	0.00003
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00021	-0.00020	-0.00020
	(!A * C * Y)	0.00009	0.00009	0.00009
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00020	-0.00020	-0.00020

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7R	(B * Y)	-0.00000	0.00000	0.00000
	(B * Y)	-0.00002	-0.00002	-0.00002
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00026	0.00026	0.00027
	(A * !B * Y)	-0.00000	0.00000	0.00000
	(A * !B * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00026	0.00026	0.00027

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1H7R	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00002	0.00002	0.00002
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00026	-0.00026	-0.00026
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00002	0.00002	0.00002
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00026	-0.00026	-0.00026

OR3X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X1P4H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X1P4H7R	0.00072	0.00067	0.00070	0.06587

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X1P4H7R	0.00000	0.25907	0.49195

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X1P4H7R	A->Y (RR)	0.03106	0.17327	0.51580
	B->Y (RR)	0.02970	0.17000	0.50827
	C->Y (RR)	0.02849	0.16676	0.50190

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X1P4H7R	A->Y (FF)	0.07513	0.19900	0.49640
	B->Y (FF)	0.07159	0.20201	0.51353
	C->Y (FF)	0.06682	0.19843	0.51145

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X1P4H7R	A	0.00040	0.00049	0.00078
	A	0.00007	0.00007	0.00007
	A	-0.00003	-0.00003	-0.00003
	A	0.00129	0.00139	0.00168
	B	0.00041	0.00051	0.00080
	B	0.00003	0.00003	0.00003
	B	-0.00003	-0.00003	-0.00003
	B	0.00113	0.00123	0.00152
	C	0.00041	0.00051	0.00084
	C	-0.00001	-0.00001	-0.00001
	C	-0.00003	-0.00003	-0.00002
	C	0.00105	0.00115	0.00148

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X1P4H7R	A	0.00138	0.00144	0.00166
	A	-0.00007	-0.00007	-0.00007
	A	0.00003	0.00003	0.00003
	A	0.00045	0.00052	0.00073
	B	0.00124	0.00131	0.00156
	B	-0.00003	-0.00003	-0.00002
	B	0.00003	0.00003	0.00003
	B	0.00050	0.00057	0.00083
	C	0.00112	0.00122	0.00159
	C	0.00001	0.00001	0.00002
	C	0.00002	0.00003	0.00003
	C	0.00049	0.00058	0.00095

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7R	(B * C * Y)	-0.00009	-0.00008	-0.00007
	(B * C * Y)	-0.00001	-0.00001	-0.00001
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00026	0.00026	0.00026
	(B * !C * Y)	-0.00009	-0.00008	-0.00007
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00026	0.00026	0.00026
	(!B * C * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7R	(B * C * Y)	0.00008	0.00009	0.00009
	(B * C * Y)	0.00001	0.00001	0.00001
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00026	-0.00026	-0.00026
	(B * !C * Y)	0.00008	0.00009	0.00009
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00026	-0.00026	-0.00026
	(!B * C * Y)	0.00008	0.00008	0.00009
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7R	(A * C * Y)	-0.00000	-0.00000	0.00000
	(A * C * Y)	-0.00004	-0.00004	-0.00004
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00020	0.00020	0.00020
	(A * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !C * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00020	0.00020	0.00020
	(!A * C * Y)	-0.00008	-0.00008	-0.00006
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00020	0.00020	0.00021

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7R	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00004	0.00004	0.00004
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00020	-0.00020	-0.00020
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00003	0.00003	0.00003
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00020	-0.00020	-0.00020
	(!A * C * Y)	0.00009	0.00009	0.00009
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00020	-0.00020	-0.00020

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7R	(B * Y)	-0.00000	0.00000	0.00000
	(B * Y)	-0.00002	-0.00002	-0.00002
	(B * Y)	0.00000	0.00000	0.00001
	(B * Y)	0.00026	0.00026	0.00026
	(A * !B * Y)	-0.00000	0.00000	0.00000
	(A * !B * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X1P4H7R	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00002	0.00002	0.00002
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00026	-0.00026	-0.00026
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00002	0.00002	0.00002
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00026	-0.00026	-0.00026

OR3X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X2H7R	2.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X2H7R	0.00071	0.00065	0.00073	0.08506

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X2H7R	0.00000	0.32614	0.50847

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X2H7R	A->Y (RR)	0.03489	0.18128	0.53186
	B->Y (RR)	0.03336	0.17803	0.52456
	C->Y (RR)	0.03243	0.17534	0.51844

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X2H7R	A->Y (FF)	0.08713	0.21521	0.51681
	B->Y (FF)	0.08321	0.21843	0.53567
	C->Y (FF)	0.07972	0.21607	0.53607

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X2H7R	A	0.00068	0.00079	0.00113
	A	0.00006	0.00006	0.00006
	A	-0.00002	-0.00002	0.00001
	A	0.00153	0.00166	0.00200
	B	0.00069	0.00081	0.00115
	B	0.00002	0.00002	0.00002
	B	-0.00002	-0.00002	-0.00002
	B	0.00138	0.00150	0.00184
	C	0.00070	0.00081	0.00118
	C	-0.00002	-0.00002	-0.00002
	C	-0.00002	-0.00002	-0.00002
	C	0.00131	0.00143	0.00180

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X2H7R	A	0.00170	0.00176	0.00204
	A	-0.00006	-0.00006	-0.00006
	A	0.00002	0.00002	0.00003
	A	0.00078	0.00087	0.00114
	B	0.00154	0.00162	0.00196
	B	-0.00002	-0.00002	-0.00002
	B	0.00002	0.00002	0.00003
	B	0.00084	0.00092	0.00126
	C	0.00143	0.00154	0.00203
	C	0.00002	0.00002	0.00002
	C	0.00002	0.00002	0.00002
	C	0.00081	0.00092	0.00141

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7R	(B * C * Y)	-0.00009	-0.00009	-0.00008
	(B * C * Y)	-0.00002	-0.00001	-0.00001
	(B * C * Y)	0.00000	0.00000	0.00000
	(B * C * Y)	0.00024	0.00024	0.00024
	(B * !C * Y)	-0.00009	-0.00009	-0.00008
	(B * !C * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00024	0.00024	0.00024
	(!B * C * Y)	-0.00009	-0.00008	-0.00007
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	0.00000	0.00000	0.00000
	(!B * C * Y)	0.00024	0.00024	0.00024

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7R	(B * C * Y)	0.00009	0.00009	0.00009
	(B * C * Y)	0.00001	0.00001	0.00002
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00024	-0.00024	-0.00024
	(B * !C * Y)	0.00010	0.00010	0.00010
	(B * !C * Y)	0.00000	0.00001	0.00001
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00024	-0.00024	-0.00024
	(!B * C * Y)	0.00009	0.00009	0.00009
	(!B * C * Y)	0.00000	0.00001	0.00001
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00024	-0.00024	-0.00024

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7R	(A * C * Y)	-0.00000	0.00000	0.00000
	(A * C * Y)	-0.00004	-0.00004	-0.00004
	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00019	0.00019	0.00019
	(A * !C * Y)	-0.00000	-0.00000	0.00000
	(A * !C * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00019	0.00019	0.00019
	(!A * C * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00019	0.00019	0.00020

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7R	(A * C * Y)	-0.00000	0.00000	0.00000
	(A * C * Y)	0.00004	0.00004	0.00004
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00019	-0.00019	-0.00019
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00003	0.00003	0.00003
	(A * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * Y)	-0.00019	-0.00019	-0.00019
	(!A * C * Y)	0.00009	0.00009	0.00009
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00019	-0.00018	-0.00018

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7R	(B * Y)	-0.00000	0.00000	0.00000
	(B * Y)	-0.00002	-0.00002	-0.00002
	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00027	0.00027	0.00027
	(A * !B * Y)	-0.00000	0.00000	0.00000
	(A * !B * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X2H7R	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00002	0.00002	0.00002
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00027	-0.00027	-0.00027
	(A * !B * Y)	-0.00000	0.00000	0.00000
	(A * !B * Y)	0.00002	0.00002	0.00002
	(A * !B * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * Y)	-0.00027	-0.00027	-0.00027

OR3X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X3H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X3H7R	0.00081	0.00077	0.00082	0.12040

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X3H7R	0.00000	0.44532	0.67653

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X3H7R	A->Y (RR)	0.03064	0.17560	0.52287
	B->Y (RR)	0.02940	0.17254	0.51616
	C->Y (RR)	0.02809	0.16935	0.50954

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X3H7R	A->Y (FF)	0.07695	0.20434	0.50393
	B->Y (FF)	0.07379	0.20765	0.52152
	C->Y (FF)	0.06871	0.20359	0.51841

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X3H7R	A	0.00081	0.00096	0.00142
	A	0.00008	0.00008	0.00009
	A	-0.00003	-0.00003	-0.00003
	A	0.00183	0.00200	0.00246
	B	0.00082	0.00097	0.00144
	B	0.00002	0.00003	0.00003
	B	-0.00003	-0.00003	-0.00003
	B	0.00166	0.00181	0.00228
	C	0.00083	0.00099	0.00150
	C	-0.00003	-0.00003	-0.00001
	C	-0.00003	-0.00003	-0.00002
	C	0.00154	0.00170	0.00221

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X3H7R	A	0.00201	0.00210	0.00247
	A	-0.00009	-0.00008	-0.00008
	A	0.00003	0.00003	0.00003
	A	0.00088	0.00101	0.00139
	B	0.00183	0.00193	0.00239
	B	-0.00003	-0.00003	-0.00002
	B	0.00003	0.00003	0.00003
	B	0.00097	0.00107	0.00153
	C	0.00166	0.00180	0.00246
	C	0.00001	0.00003	0.00005
	C	0.00003	0.00003	0.00003
	C	0.00095	0.00108	0.00176

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7R	(B * C * Y)	-0.00011	-0.00010	-0.00009
	(B * C * Y)	-0.00001	-0.00001	-0.00001
	(B * C * Y)	0.00000	0.00001	0.00001
	(B * C * Y)	0.00028	0.00028	0.00028
	(B * !C * Y)	-0.00011	-0.00010	-0.00009
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00000	0.00001	0.00000
	(B * !C * Y)	0.00028	0.00028	0.00028
	(!B * C * Y)	-0.00011	-0.00009	-0.00008
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	0.00000	0.00001	0.00000
	(!B * C * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7R	(B * C * Y)	0.00011	0.00011	0.00011
	(B * C * Y)	0.00001	0.00001	0.00001
	(B * C * Y)	-0.00000	-0.00000	-0.00000
	(B * C * Y)	-0.00028	-0.00028	-0.00028
	(B * !C * Y)	0.00011	0.00011	0.00011
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00000	-0.00001	-0.00000
	(B * !C * Y)	-0.00028	-0.00028	-0.00028
	(!B * C * Y)	0.00010	0.00011	0.00011
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * Y)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7R	(A * C * Y)	-0.00000	-0.00000	0.00000
	(A * C * Y)	-0.00006	-0.00006	-0.00006
	(A * C * Y)	0.00000	0.00001	0.00001
	(A * C * Y)	0.00022	0.00023	0.00023
	(A * !C * Y)	-0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00004	-0.00004	-0.00004
	(A * !C * Y)	0.00000	0.00001	0.00000
	(A * !C * Y)	0.00022	0.00022	0.00022
	(!A * C * Y)	-0.00011	-0.00010	-0.00009
	(!A * C * Y)	-0.00002	-0.00001	-0.00001
	(!A * C * Y)	0.00000	0.00000	0.00000
	(!A * C * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7R	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00006	0.00006	0.00006
	(A * C * Y)	-0.00000	-0.00000	-0.00000
	(A * C * Y)	-0.00022	-0.00022	-0.00022
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00004	0.00004	0.00004
	(A * !C * Y)	-0.00000	-0.00001	-0.00000
	(A * !C * Y)	-0.00022	-0.00022	-0.00022
	(!A * C * Y)	0.00011	0.00012	0.00012
	(!A * C * Y)	0.00001	0.00001	0.00002
	(!A * C * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * Y)	-0.00022	-0.00022	-0.00022

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7R	(B * Y)	-0.00000	0.00000	0.00000
	(B * Y)	-0.00002	-0.00003	-0.00002
	(B * Y)	0.00000	0.00001	0.00000
	(B * Y)	0.00029	0.00030	0.00030
	(A * !B * Y)	-0.00000	0.00000	0.00000
	(A * !B * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * Y)	0.00000	0.00001	0.00001
	(A * !B * Y)	0.00030	0.00030	0.00030

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X3H7R	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00003	0.00003	0.00003
	(B * Y)	-0.00000	-0.00000	-0.00000
	(B * Y)	-0.00030	-0.00030	-0.00029
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00002	0.00003	0.00003
	(A * !B * Y)	-0.00001	-0.00000	-0.00000
	(A * !B * Y)	-0.00030	-0.00030	-0.00029

OR3X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X4H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X4H7R	0.00085	0.00083	0.00087	0.16195

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X4H7R	0.00000	0.59235	0.80086

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X4H7R	A->Y (RR)	0.03215	0.17919	0.53097
	B->Y (RR)	0.03104	0.17638	0.52411
	C->Y (RR)	0.02974	0.17341	0.51782

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X4H7R	A->Y (FF)	0.08491	0.21549	0.51911
	B->Y (FF)	0.08202	0.21939	0.53809
	C->Y (FF)	0.07686	0.21532	0.53574

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X4H7R	A	0.00125	0.00144	0.00205
	A	0.00008	0.00008	0.00008
	A	-0.00003	-0.00003	-0.00002
	A	0.00235	0.00254	0.00315
	B	0.00127	0.00146	0.00207
	B	0.00002	0.00002	0.00002
	B	-0.00003	-0.00003	-0.00002
	B	0.00215	0.00235	0.00296
	C	0.00128	0.00147	0.00213
	C	-0.00005	-0.00005	-0.00004
	C	-0.00003	-0.00002	-0.00002
	C	0.00201	0.00221	0.00287

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X4H7R	A	0.00255	0.00266	0.00320
	A	-0.00008	-0.00008	-0.00008
	A	0.00002	0.00003	0.00003
	A	0.00138	0.00151	0.00205
	B	0.00235	0.00248	0.00314
	B	-0.00002	-0.00002	-0.00002
	B	0.00002	0.00003	0.00003
	B	0.00144	0.00156	0.00224
	C	0.00216	0.00234	0.00327
	C	0.00005	0.00005	0.00005
	C	0.00002	0.00003	0.00003
	C	0.00143	0.00160	0.00254

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7R	(B * C * Y)	-0.00012	-0.00011	-0.00010
	(B * C * Y)	-0.00002	-0.00002	-0.00002
	(B * C * Y)	0.00000	0.00001	0.00001
	(B * C * Y)	0.00029	0.00029	0.00030
	(B * !C * Y)	-0.00012	-0.00011	-0.00010
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	0.00000	0.00001	0.00001
	(B * !C * Y)	0.00029	0.00029	0.00029
	(!B * C * Y)	-0.00012	-0.00011	-0.00009
	(!B * C * Y)	-0.00002	-0.00002	-0.00001
	(!B * C * Y)	0.00000	0.00001	0.00001
	(!B * C * Y)	0.00029	0.00029	0.00030

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7R	(B * C * Y)	0.00012	0.00012	0.00012
	(B * C * Y)	0.00002	0.00002	0.00002
	(B * C * Y)	-0.00001	-0.00001	-0.00000
	(B * C * Y)	-0.00029	-0.00029	-0.00029
	(B * !C * Y)	0.00012	0.00012	0.00013
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * Y)	-0.00029	-0.00029	-0.00029
	(!B * C * Y)	0.00012	0.00012	0.00012
	(!B * C * Y)	0.00001	0.00002	0.00002
	(!B * C * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * Y)	-0.00029	-0.00029	-0.00029

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7R	(A * C * Y)	-0.00000	-0.00000	0.00000
	(A * C * Y)	-0.00006	-0.00006	-0.00006
	(A * C * Y)	0.00001	0.00001	0.00001
	(A * C * Y)	0.00024	0.00025	0.00025
	(A * !C * Y)	-0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00005	-0.00005	-0.00004
	(A * !C * Y)	0.00000	0.00001	0.00001
	(A * !C * Y)	0.00024	0.00024	0.00024
	(!A * C * Y)	-0.00013	-0.00012	-0.00009
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	0.00000	0.00001	0.00001
	(!A * C * Y)	0.00024	0.00025	0.00026

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7R	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00006	0.00006	0.00006
	(A * C * Y)	-0.00001	-0.00001	-0.00000
	(A * C * Y)	-0.00024	-0.00024	-0.00024
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00005	0.00005	0.00005
	(A * !C * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * Y)	-0.00024	-0.00024	-0.00024
	(!A * C * Y)	0.00013	0.00013	0.00013
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * Y)	-0.00024	-0.00024	-0.00024

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7R	(B * Y)	-0.00000	0.00000	0.00000
	(B * Y)	-0.00003	-0.00003	-0.00003
	(B * Y)	0.00000	0.00001	0.00001
	(B * Y)	0.00031	0.00032	0.00032
	(A * !B * Y)	-0.00000	-0.00000	0.00000
	(A * !B * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * Y)	0.00000	0.00001	0.00001
	(A * !B * Y)	0.00032	0.00032	0.00032

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X4H7R	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00003	0.00003	0.00003
	(B * Y)	-0.00001	-0.00001	-0.00000
	(B * Y)	-0.00032	-0.00032	-0.00031
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00003	0.00003	0.00003
	(A * !B * Y)	-0.00001	-0.00001	-0.00000
	(A * !B * Y)	-0.00032	-0.00032	-0.00032

OR3X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X6H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X6H7R	0.00099	0.00093	0.00103	0.23168

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X6H7R	0.00000	0.79694	0.98638

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X6H7R	A->Y (RR)	0.03054	0.17796	0.53035
	B->Y (RR)	0.02910	0.17486	0.52329
	C->Y (RR)	0.02802	0.17207	0.51765

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X6H7R	A->Y (FF)	0.08269	0.21482	0.51968
	B->Y (FF)	0.07888	0.21783	0.53817
	C->Y (FF)	0.07461	0.21420	0.53557

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X6H7R	A	0.00145	0.00168	0.00253
	A	0.00007	0.00007	0.00008
	A	-0.00001	-0.00001	0.00006
	A	0.00266	0.00293	0.00378
	B	0.00147	0.00170	0.00257
	B	0.00000	0.00000	0.00000
	B	-0.00001	-0.00001	-0.00001
	B	0.00246	0.00269	0.00356
	C	0.00148	0.00171	0.00264
	C	-0.00008	-0.00008	-0.00008
	C	-0.00001	-0.00001	0.00003
	C	0.00227	0.00254	0.00346

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X6H7R	A	0.00300	0.00315	0.00393
	A	-0.00008	-0.00007	-0.00007
	A	0.00001	0.00001	0.00002
	A	0.00169	0.00184	0.00263
	B	0.00274	0.00290	0.00387
	B	-0.00000	-0.00000	0.00000
	B	0.00001	0.00001	0.00002
	B	0.00171	0.00189	0.00287
	C	0.00252	0.00275	0.00408
	C	0.00008	0.00008	0.00012
	C	0.00001	0.00001	0.00002
	C	0.00170	0.00192	0.00326

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7R	(B * C * Y)	-0.00015	-0.00014	-0.00012
	(B * C * Y)	-0.00002	-0.00002	-0.00002
	(B * C * Y)	0.00000	0.00001	0.00001
	(B * C * Y)	0.00031	0.00031	0.00032
	(B * !C * Y)	-0.00015	-0.00014	-0.00012
	(B * !C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	0.00031	0.00031	0.00031
	(!B * C * Y)	-0.00015	-0.00013	-0.00011
	(!B * C * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	0.00031	0.00031	0.00032

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7R	(B * C * Y)	0.00015	0.00015	0.00015
	(B * C * Y)	0.00002	0.00002	0.00002
	(B * C * Y)	-0.00001	-0.00001	-0.00000
	(B * C * Y)	-0.00031	-0.00031	-0.00031
	(B * !C * Y)	0.00015	0.00015	0.00016
	(B * !C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	-0.00031	-0.00031	-0.00031
	(!B * C * Y)	0.00014	0.00015	0.00015
	(!B * C * Y)	0.00002	0.00002	0.00002
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	-0.00031	-0.00031	-0.00031

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7R	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	-0.00008	-0.00008	-0.00008
	(A * C * Y)	0.00001	0.00001	0.00001
	(A * C * Y)	0.00026	0.00026	0.00026
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00006	-0.00005	-0.00005
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	0.00026	0.00026	0.00026
	(!A * C * Y)	-0.00015	-0.00014	-0.00011
	(!A * C * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	0.00025	0.00026	0.00027

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7R	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00008	0.00008	0.00008
	(A * C * Y)	-0.00001	-0.00001	-0.00001
	(A * C * Y)	-0.00026	-0.00026	-0.00025
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00005	0.00006	0.00006
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	-0.00026	-0.00026	-0.00025
	(!A * C * Y)	0.00016	0.00016	0.00016
	(!A * C * Y)	0.00002	0.00002	0.00002
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7R	(B * Y)	-0.00000	0.00000	0.00000
	(B * Y)	-0.00003	-0.00003	-0.00003
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	0.00036	0.00037	0.00037
	(A * !B * Y)	-0.00000	0.00000	0.00000
	(A * !B * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * Y)	0.00001	0.00001	0.00001
	(A * !B * Y)	0.00036	0.00037	0.00037

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X6H7R	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00004	0.00004	0.00004
	(B * Y)	-0.00001	-0.00001	-0.00000
	(B * Y)	-0.00037	-0.00036	-0.00036
	(A * !B * Y)	-0.00000	0.00000	0.00000
	(A * !B * Y)	0.00003	0.00003	0.00003
	(A * !B * Y)	-0.00001	-0.00001	-0.00000
	(A * !B * Y)	-0.00037	-0.00036	-0.00036

OR3X8H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR3 cell provides the logical OR of three inputs (A, B, C). The output (Y) is represented by the logic equation:

Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	x	1	1
x	1	x	1
1	x	x	1

Footprint

Cell Name	Area
OR3X8H7R	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
OR3X8H7R	0.00171	0.00162	0.00175	0.30921

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR3X8H7R	0.00000	1.10876	1.59634

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X8H7R	A->Y (RR)	0.02804	0.17404	0.52323
	B->Y (RR)	0.02684	0.17064	0.51504
	C->Y (RR)	0.02514	0.16652	0.50642

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR3X8H7R	A->Y (FF)	0.07677	0.20721	0.50764
	B->Y (FF)	0.07325	0.20945	0.52371
	C->Y (FF)	0.06540	0.20222	0.51825

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X8H7R	A	0.00180	0.00216	0.00339
	A	0.00016	0.00016	0.00018
	A	-0.00005	-0.00005	0.00005
	A	0.00412	0.00452	0.00574
	B	0.00184	0.00218	0.00342
	B	0.00003	0.00003	0.00004
	B	-0.00005	-0.00005	0.00006
	B	0.00361	0.00406	0.00529
	C	0.00188	0.00225	0.00361
	C	-0.00010	-0.00010	-0.00009
	C	-0.00005	-0.00005	-0.00005
	C	0.00337	0.00375	0.00511

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR3X8H7R	A	0.00478	0.00497	0.00595
	A	-0.00018	-0.00016	-0.00016
	A	0.00005	0.00005	0.00006
	A	0.00217	0.00248	0.00347
	B	0.00427	0.00450	0.00575
	B	-0.00004	-0.00003	0.00000
	B	0.00005	0.00005	0.00006
	B	0.00230	0.00255	0.00383
	C	0.00369	0.00403	0.00583
	C	0.00009	0.00010	0.00013
	C	0.00005	0.00005	0.00006
	C	0.00217	0.00252	0.00434

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7R	(B * C * Y)	-0.00028	-0.00026	-0.00022
	(B * C * Y)	-0.00004	-0.00004	-0.00004
	(B * C * Y)	0.00001	0.00001	0.00001
	(B * C * Y)	0.00054	0.00054	0.00055
	(B * !C * Y)	-0.00029	-0.00026	-0.00021
	(B * !C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	0.00054	0.00054	0.00055
	(!B * C * Y)	-0.00028	-0.00024	-0.00018
	(!B * C * Y)	-0.00004	-0.00004	-0.00004
	(!B * C * Y)	0.00001	0.00001	0.00001
	(!B * C * Y)	0.00055	0.00055	0.00056

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7R	(B * C * Y)	0.00028	0.00028	0.00028
	(B * C * Y)	0.00004	0.00004	0.00004
	(B * C * Y)	-0.00001	-0.00001	-0.00001
	(B * C * Y)	-0.00054	-0.00054	-0.00054
	(B * !C * Y)	0.00029	0.00030	0.00030
	(B * !C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	-0.00054	-0.00054	-0.00054
	(!B * C * Y)	0.00027	0.00027	0.00028
	(!B * C * Y)	0.00004	0.00004	0.00004
	(!B * C * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * Y)	-0.00055	-0.00054	-0.00054

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7R	(A * C * Y)	-0.00000	-0.00000	0.00000
	(A * C * Y)	-0.00013	-0.00013	-0.00012
	(A * C * Y)	0.00001	0.00001	0.00001
	(A * C * Y)	0.00049	0.00050	0.00050
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	-0.00009	-0.00009	-0.00009
	(A * !C * Y)	0.00001	0.00001	0.00001
	(A * !C * Y)	0.00048	0.00049	0.00049
	(!A * C * Y)	-0.00035	-0.00031	-0.00025
	(!A * C * Y)	-0.00003	-0.00003	-0.00003
	(!A * C * Y)	0.00001	0.00001	0.00001
	(!A * C * Y)	0.00045	0.00046	0.00049

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7R	(A * C * Y)	0.00000	0.00000	0.00000
	(A * C * Y)	0.00012	0.00013	0.00013
	(A * C * Y)	-0.00001	-0.00001	-0.00001
	(A * C * Y)	-0.00049	-0.00049	-0.00049
	(A * !C * Y)	0.00000	0.00000	0.00000
	(A * !C * Y)	0.00009	0.00009	0.00009
	(A * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * Y)	-0.00049	-0.00048	-0.00048
	(!A * C * Y)	0.00035	0.00035	0.00035
	(!A * C * Y)	0.00003	0.00003	0.00003
	(!A * C * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * Y)	-0.00045	-0.00044	-0.00044

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7R	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	-0.00005	-0.00005	-0.00005
	(B * Y)	0.00001	0.00001	0.00001
	(B * Y)	0.00065	0.00066	0.00066
	(A * !B * Y)	-0.00000	-0.00000	0.00000
	(A * !B * Y)	-0.00005	-0.00005	-0.00005
	(A * !B * Y)	0.00001	0.00001	0.00001
	(A * !B * Y)	0.00065	0.00066	0.00066

Passive power(pJ) for C falling (conditional):

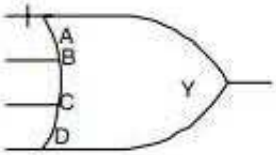
Cell Name	When	Power(pJ)		
		min	avg	max
OR3X8H7R	(B * Y)	0.00000	0.00000	0.00000
	(B * Y)	0.00006	0.00006	0.00006
	(B * Y)	-0.00001	-0.00001	-0.00001
	(B * Y)	-0.00066	-0.00066	-0.00065
	(A * !B * Y)	0.00000	0.00000	0.00000
	(A * !B * Y)	0.00005	0.00006	0.00006
	(A * !B * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * Y)	-0.00065	-0.00065	-0.00064

OR4X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X0P5H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X0P5H7R	0.00075	0.00068	0.00069	0.00070	0.04258

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X0P5H7R	0.00000	0.18407	0.60465

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X0P5H7R	A->Y (RR)	0.03849	0.18307	0.52969
	B->Y (RR)	0.03724	0.18010	0.52290
	C->Y (RR)	0.03601	0.17716	0.51574
	D->Y (RR)	0.03473	0.17402	0.50914

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X0P5H7R	A->Y (FF)	0.11423	0.23847	0.53307
	B->Y (FF)	0.10893	0.23920	0.54806
	C->Y (FF)	0.10365	0.23934	0.56120
	D->Y (FF)	0.09540	0.23214	0.55593

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X0P5H7R	A	0.00036	0.00044	0.00066
	A	0.00012	0.00012	0.00012
	A	-0.00006	-0.00006	-0.00005
	A	0.00152	0.00160	0.00182
	B	0.00038	0.00046	0.00071
	B	0.00008	0.00008	0.00008
	B	-0.00006	-0.00006	-0.00006
	B	0.00136	0.00146	0.00168
	C	0.00039	0.00047	0.00069
	C	0.00004	0.00004	0.00004
	C	-0.00006	-0.00006	-0.00006
	C	0.00127	0.00136	0.00158
	D	0.00039	0.00048	0.00073
	D	-0.00000	-0.00000	0.00000
	D	-0.00006	-0.00006	-0.00005
	D	0.00120	0.00129	0.00153

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X0P5H7R	A	0.00167	0.00172	0.00184
	A	-0.00012	-0.00012	-0.00012
	A	0.00006	0.00006	0.00006
	A	0.00047	0.00052	0.00065
	B	0.00153	0.00158	0.00173
	B	-0.00008	-0.00008	-0.00008
	B	0.00006	0.00006	0.00006
	B	0.00050	0.00055	0.00070
	C	0.00139	0.00145	0.00164
	C	-0.00004	-0.00004	-0.00004
	C	0.00006	0.00006	0.00006
	C	0.00049	0.00055	0.00074
	D	0.00127	0.00136	0.00164
	D	-0.00000	0.00000	0.00001
	D	0.00006	0.00006	0.00006
	D	0.00046	0.00054	0.00083

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7R	(B * D * Y)	-0.00008	-0.00008	-0.00007
	(B * D * Y)	-0.00001	-0.00001	-0.00001
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00026	0.00026	0.00026
	(B * C * !D * Y)	-0.00008	-0.00007	-0.00007
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00026	0.00026	0.00026
	(B * !C * !D * Y)	-0.00008	-0.00008	-0.00007
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00026	0.00026	0.00026
	(!B * C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00026	0.00026	0.00026
	(!B * C * !D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00026	0.00026	0.00026
	(!B * !C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7R	(B * D * Y)	0.00008	0.00008	0.00008
	(B * D * Y)	0.00001	0.00001	0.00001
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00026	-0.00026	-0.00026
	(B * C * !D * Y)	0.00008	0.00008	0.00008
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00026	-0.00026	-0.00026
	(B * !C * !D * Y)	0.00008	0.00008	0.00008
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00026	-0.00026	-0.00026
	(!B * C * D * Y)	0.00008	0.00008	0.00008
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00026	-0.00026	-0.00026
	(!B * C * !D * Y)	0.00008	0.00008	0.00008
	(!B * C * !D * Y)	0.00001	0.00001	0.00001
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00026	-0.00026	-0.00026
	(!B * !C * D * Y)	0.00008	0.00008	0.00008
	(!B * !C * D * Y)	0.00000	0.00001	0.00001
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7R	(A * C * D * Y)	-0.00000	0.00000	0.00000
	(A * C * D * Y)	-0.00004	-0.00004	-0.00004
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00021	0.00021	0.00021
	(A * C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * C * !D * Y)	-0.00004	-0.00004	-0.00004
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00021	0.00021	0.00021
	(A * !C * D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00021	0.00021	0.00021
	(A * !C * !D * Y)	-0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00020	0.00021	0.00021
	(!A * C * D * Y)	-0.00008	-0.00008	-0.00006
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00020	0.00020	0.00021
	(!A * C * !D * Y)	-0.00008	-0.00008	-0.00006
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00020	0.00020	0.00020
	(!A * !C * D * Y)	-0.00008	-0.00007	-0.00005
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00020	0.00020	0.00021

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7R	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00004	0.00004	0.00004
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00021	-0.00021	-0.00021
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00004	0.00004	0.00004
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00021	-0.00021	-0.00021
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00004	0.00004	0.00004
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00021	-0.00021	-0.00020
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00003	0.00003	0.00003
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00021	-0.00021	-0.00020
	(!A * C * D * Y)	0.00008	0.00008	0.00008
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00020	-0.00020	-0.00020
	(!A * C * !D * Y)	0.00008	0.00009	0.00009
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00020	-0.00020	-0.00020
	(!A * !C * D * Y)	0.00008	0.00008	0.00008
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00020	-0.00020	-0.00020

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7R	(B * D * Y)	-0.00000	0.00000	0.00000
	(B * D * Y)	-0.00004	-0.00004	-0.00004
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00022	0.00022	0.00022
	(B * !D * Y)	-0.00000	0.00000	0.00000
	(B * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00022	0.00022	0.00022
	(A * !B * D * Y)	-0.00000	0.00000	0.00000
	(A * !B * D * Y)	-0.00004	-0.00004	-0.00004
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00022	0.00022	0.00022
	(A * !B * !D * Y)	-0.00000	0.00000	0.00000
	(A * !B * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00021	0.00022	0.00022
	(!A * !B * D * Y)	-0.00008	-0.00007	-0.00006
	(!A * !B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	0.00021	0.00022	0.00022

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7R	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00004	0.00004	0.00004
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00022	-0.00022	-0.00022
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00003	0.00003	0.00003
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00022	-0.00022	-0.00022
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00004	0.00004	0.00004
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00022	-0.00022	-0.00021
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00003	0.00003	0.00003
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00022	-0.00022	-0.00021
	(!A * !B * D * Y)	0.00009	0.00009	0.00009
	(!A * !B * D * Y)	0.00001	0.00001	0.00001
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7R	(C * Y)	-0.00000	0.00000	0.00000
	(C * Y)	-0.00002	-0.00002	-0.00002
	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00028	0.00028	0.00028
	(B * !C * Y)	-0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00028	0.00028	0.00028
	(A * !B * !C * Y)	-0.00000	0.00000	0.00000
	(A * !B * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for D falling (conditional):

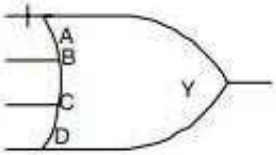
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P5H7R	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00002	0.00002	0.00002
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00028	-0.00028	-0.00028
	(B * !C * Y)	-0.00000	0.00000	0.00000
	(B * !C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00028	-0.00028	-0.00027
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00002	0.00002	0.00002
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00028	-0.00028	-0.00027

OR4X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X0P7H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X0P7H7R	0.00077	0.00071	0.00071	0.00071	0.04826

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X0P7H7R	0.00000	0.20108	0.61160

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X0P7H7R	A->Y (RR)	0.03828	0.18378	0.53267
	B->Y (RR)	0.03708	0.18092	0.52593
	C->Y (RR)	0.03594	0.17808	0.51927
	D->Y (RR)	0.03445	0.17488	0.51237

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X0P7H7R	A->Y (FF)	0.11710	0.24291	0.53875
	B->Y (FF)	0.11200	0.24393	0.55483
	C->Y (FF)	0.10686	0.24431	0.56894
	D->Y (FF)	0.09803	0.23671	0.56337

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X0P7H7R	A	0.00039	0.00047	0.00069
	A	0.00012	0.00012	0.00012
	A	-0.00006	-0.00006	-0.00005
	A	0.00157	0.00165	0.00187
	B	0.00040	0.00048	0.00071
	B	0.00008	0.00008	0.00008
	B	-0.00006	-0.00006	-0.00005
	B	0.00143	0.00151	0.00173
	C	0.00041	0.00049	0.00071
	C	0.00004	0.00004	0.00004
	C	-0.00006	-0.00006	-0.00005
	C	0.00132	0.00140	0.00163
	D	0.00042	0.00051	0.00076
	D	-0.00000	-0.00000	0.00000
	D	-0.00006	-0.00006	-0.00005
	D	0.00125	0.00134	0.00159

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X0P7H7R	A	0.00174	0.00179	0.00192
	A	-0.00012	-0.00012	-0.00012
	A	0.00005	0.00006	0.00006
	A	0.00049	0.00055	0.00068
	B	0.00159	0.00164	0.00181
	B	-0.00008	-0.00008	-0.00008
	B	0.00005	0.00006	0.00006
	B	0.00053	0.00059	0.00075
	C	0.00146	0.00152	0.00172
	C	-0.00004	-0.00004	-0.00004
	C	0.00005	0.00006	0.00006
	C	0.00054	0.00059	0.00079
	D	0.00134	0.00142	0.00172
	D	0.00000	0.00000	0.00001
	D	0.00005	0.00006	0.00006
	D	0.00051	0.00059	0.00089

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7R	(B * D * Y)	-0.00008	-0.00007	-0.00007
	(B * D * Y)	-0.00001	-0.00001	-0.00001
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00027	0.00027	0.00027
	(B * C * !D * Y)	-0.00008	-0.00007	-0.00007
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00026	0.00027	0.00027
	(B * !C * !D * Y)	-0.00008	-0.00007	-0.00007
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00027	0.00027	0.00027
	(!B * C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00026	0.00027	0.00027
	(!B * C * !D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00027	0.00027	0.00027
	(!B * !C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7R	(B * D * Y)	0.00008	0.00008	0.00008
	(B * D * Y)	0.00001	0.00001	0.00001
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00027	-0.00027	-0.00026
	(B * C * !D * Y)	0.00008	0.00008	0.00008
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00027	-0.00027	-0.00026
	(B * !C * !D * Y)	0.00008	0.00008	0.00008
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00027	-0.00027	-0.00027
	(!B * C * D * Y)	0.00008	0.00008	0.00008
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00027	-0.00027	-0.00026
	(!B * C * !D * Y)	0.00008	0.00008	0.00008
	(!B * C * !D * Y)	0.00001	0.00001	0.00001
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00027	-0.00027	-0.00026
	(!B * !C * D * Y)	0.00008	0.00008	0.00008
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00027	-0.00027	-0.00026

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7R	(A * C * D * Y)	-0.00000	-0.00000	0.00000
	(A * C * D * Y)	-0.00004	-0.00004	-0.00004
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00021	0.00021	0.00021
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00004	-0.00004	-0.00004
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00021	0.00021	0.00021
	(A * !C * D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00021	0.00021	0.00021
	(A * !C * !D * Y)	-0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00021	0.00021	0.00021
	(!A * C * D * Y)	-0.00008	-0.00008	-0.00007
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00021	0.00021	0.00021
	(!A * C * !D * Y)	-0.00008	-0.00008	-0.00006
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00021	0.00021	0.00021
	(!A * !C * D * Y)	-0.00008	-0.00007	-0.00005
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7R	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00004	0.00004	0.00004
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00021	-0.00021	-0.00021
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00004	0.00004	0.00004
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00021	-0.00021	-0.00021
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00004	0.00004	0.00004
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00021	-0.00021	-0.00021
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00003	0.00003	0.00003
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00021	-0.00021	-0.00021
	(!A * C * D * Y)	0.00008	0.00008	0.00008
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00021	-0.00021	-0.00021
	(!A * C * !D * Y)	0.00009	0.00009	0.00009
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00021	-0.00021	-0.00021
	(!A * !C * D * Y)	0.00008	0.00008	0.00008
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7R	(B * D * Y)	-0.00000	0.00000	0.00000
	(B * D * Y)	-0.00004	-0.00004	-0.00004
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00022	0.00022	0.00022
	(B * !D * Y)	-0.00000	0.00000	0.00000
	(B * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00021	0.00022	0.00022
	(A * !B * D * Y)	-0.00000	0.00000	0.00000
	(A * !B * D * Y)	-0.00004	-0.00004	-0.00004
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00022	0.00022	0.00022
	(A * !B * !D * Y)	-0.00000	0.00000	0.00000
	(A * !B * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00021	0.00022	0.00022
	(!A * !B * D * Y)	-0.00008	-0.00008	-0.00006
	(!A * !B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	0.00021	0.00022	0.00022

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7R	(B * D * Y)	-0.00000	0.00000	0.00000
	(B * D * Y)	0.00004	0.00004	0.00004
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00022	-0.00022	-0.00022
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00003	0.00003	0.00003
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00022	-0.00022	-0.00021
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00004	0.00004	0.00004
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00022	-0.00021	-0.00021
	(A * !B * !D * Y)	-0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00003	0.00003	0.00003
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00022	-0.00022	-0.00021
	(!A * !B * D * Y)	0.00009	0.00009	0.00009
	(!A * !B * D * Y)	0.00001	0.00001	0.00001
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7R	(C * Y)	-0.00000	0.00000	0.00000
	(C * Y)	-0.00002	-0.00002	-0.00002
	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00027	0.00028	0.00028
	(B * !C * Y)	-0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00027	0.00028	0.00028
	(A * !B * !C * Y)	-0.00000	0.00000	0.00000
	(A * !B * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00028	0.00028	0.00028

Passive power(pJ) for D falling (conditional):

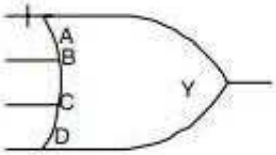
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X0P7H7R	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00002	0.00002	0.00002
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00028	-0.00028	-0.00027
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00028	-0.00028	-0.00027
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00002	0.00002	0.00002
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00028	-0.00028	-0.00027

OR4X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X1H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X1H7R	0.00073	0.00069	0.00067	0.00070	0.05753

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X1H7R	0.00000	0.22446	0.62255

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X1H7R	A->Y (RR)	0.03622	0.18175	0.53028
	B->Y (RR)	0.03512	0.17898	0.52323
	C->Y (RR)	0.03380	0.17598	0.51677
	D->Y (RR)	0.03258	0.17296	0.51033

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X1H7R	A->Y (FF)	0.11328	0.24150	0.54172
	B->Y (FF)	0.10877	0.24278	0.55774
	C->Y (FF)	0.10278	0.24257	0.57112
	D->Y (FF)	0.09495	0.23580	0.56623

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X1H7R	A	0.00042	0.00051	0.00074
	A	0.00011	0.00011	0.00011
	A	-0.00005	-0.00005	-0.00005
	A	0.00155	0.00164	0.00188
	B	0.00043	0.00052	0.00076
	B	0.00007	0.00007	0.00008
	B	-0.00005	-0.00005	-0.00005
	B	0.00142	0.00151	0.00175
	C	0.00044	0.00053	0.00077
	C	0.00003	0.00003	0.00003
	C	-0.00005	-0.00005	-0.00005
	C	0.00131	0.00139	0.00164
	D	0.00045	0.00054	0.00081
	D	-0.00001	-0.00001	-0.00000
	D	-0.00005	-0.00005	-0.00005
	D	0.00123	0.00133	0.00160

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X1H7R	A	0.00171	0.00177	0.00192
	A	-0.00011	-0.00011	-0.00011
	A	0.00005	0.00005	0.00005
	A	0.00053	0.00059	0.00074
	B	0.00157	0.00162	0.00181
	B	-0.00008	-0.00007	-0.00007
	B	0.00005	0.00005	0.00005
	B	0.00055	0.00060	0.00079
	C	0.00144	0.00150	0.00173
	C	-0.00003	-0.00003	-0.00003
	C	0.00005	0.00005	0.00005
	C	0.00056	0.00062	0.00085
	D	0.00132	0.00140	0.00174
	D	0.00000	0.00001	0.00002
	D	0.00005	0.00005	0.00005
	D	0.00053	0.00061	0.00095

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7R	(B * D * Y)	-0.00008	-0.00008	-0.00007
	(B * D * Y)	-0.00001	-0.00001	-0.00001
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00025	0.00025	0.00025
	(B * C * !D * Y)	-0.00008	-0.00008	-0.00007
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00025	0.00025	0.00025
	(B * !C * !D * Y)	-0.00008	-0.00008	-0.00007
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00025	0.00025	0.00025
	(!B * C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00025	0.00025	0.00025
	(!B * C * !D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00025	0.00025	0.00025
	(!B * !C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * !C * D * Y)	-0.00002	-0.00001	-0.00000
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7R	(B * D * Y)	0.00008	0.00008	0.00008
	(B * D * Y)	0.00001	0.00001	0.00001
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00025	-0.00025	-0.00025
	(B * C * !D * Y)	0.00008	0.00008	0.00008
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00025	-0.00025	-0.00025
	(B * !C * !D * Y)	0.00008	0.00008	0.00008
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00025	-0.00025	-0.00025
	(!B * C * D * Y)	0.00008	0.00008	0.00008
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00025	-0.00025	-0.00025
	(!B * C * !D * Y)	0.00008	0.00008	0.00008
	(!B * C * !D * Y)	0.00001	0.00001	0.00001
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00025	-0.00025	-0.00025
	(!B * !C * D * Y)	0.00007	0.00008	0.00008
	(!B * !C * D * Y)	0.00000	0.00001	0.00002
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7R	(A * C * D * Y)	-0.00000	-0.00000	0.00000
	(A * C * D * Y)	-0.00004	-0.00004	-0.00004
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00021	0.00022	0.00022
	(A * C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * C * !D * Y)	-0.00004	-0.00004	-0.00004
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00022	0.00022	0.00022
	(A * !C * D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00022	0.00022	0.00022
	(A * !C * !D * Y)	-0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00021	0.00022	0.00022
	(!A * C * D * Y)	-0.00008	-0.00008	-0.00006
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00021	0.00021	0.00021
	(!A * C * !D * Y)	-0.00008	-0.00008	-0.00006
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00021	0.00021	0.00021
	(!A * !C * D * Y)	-0.00008	-0.00007	-0.00005
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00021	0.00021	0.00022

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7R	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00004	0.00004	0.00004
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00022	-0.00022	-0.00021
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00004	0.00004	0.00004
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00022	-0.00022	-0.00022
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00004	0.00004	0.00004
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00022	-0.00022	-0.00021
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00003	0.00003	0.00003
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00022	-0.00021	-0.00021
	(!A * C * D * Y)	0.00008	0.00008	0.00008
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00021	-0.00021	-0.00021
	(!A * C * !D * Y)	0.00008	0.00009	0.00009
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00021	-0.00021	-0.00021
	(!A * !C * D * Y)	0.00008	0.00008	0.00008
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7R	(B * D * Y)	-0.00000	0.00000	0.00000
	(B * D * Y)	-0.00004	-0.00004	-0.00004
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00021	0.00021	0.00021
	(B * !D * Y)	-0.00000	0.00000	0.00000
	(B * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00020	0.00021	0.00021
	(A * !B * D * Y)	-0.00000	0.00000	0.00000
	(A * !B * D * Y)	-0.00004	-0.00004	-0.00004
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00021	0.00021	0.00021
	(A * !B * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00020	0.00020	0.00021
	(!A * !B * D * Y)	-0.00008	-0.00008	-0.00006
	(!A * !B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	0.00020	0.00021	0.00021

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7R	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00004	0.00004	0.00004
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00021	-0.00020	-0.00020
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00003	0.00003	0.00003
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00021	-0.00020	-0.00020
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00004	0.00004	0.00004
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00021	-0.00020	-0.00020
	(A * !B * !D * Y)	-0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00003	0.00003	0.00003
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00021	-0.00020	-0.00020
	(!A * !B * D * Y)	0.00009	0.00009	0.00009
	(!A * !B * D * Y)	0.00001	0.00001	0.00001
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00020	-0.00020	-0.00020

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7R	(C * Y)	-0.00000	0.00000	0.00000
	(C * Y)	-0.00002	-0.00002	-0.00002
	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00027	0.00027	0.00027
	(B * !C * Y)	-0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00027	0.00027	0.00027
	(A * !B * !C * Y)	-0.00000	0.00000	0.00000
	(A * !B * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for D falling (conditional):

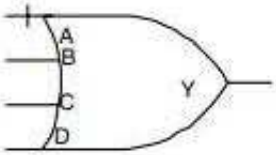
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1H7R	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00002	0.00002	0.00002
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00027	-0.00027	-0.00027
	(B * !C * Y)	-0.00000	0.00000	0.00000
	(B * !C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00027	-0.00027	-0.00026
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00002	0.00002	0.00002
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00027	-0.00027	-0.00027

OR4X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X1P4H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X1P4H7R	0.00073	0.00068	0.00066	0.00069	0.06580

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X1P4H7R	0.00000	0.24756	0.63211

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X1P4H7R	A->Y (RR)	0.03531	0.18149	0.53119
	B->Y (RR)	0.03431	0.17878	0.52485
	C->Y (RR)	0.03301	0.17579	0.51813
	D->Y (RR)	0.03170	0.17270	0.51116

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X1P4H7R	A->Y (FF)	0.11262	0.24171	0.54274
	B->Y (FF)	0.10835	0.24329	0.55894
	C->Y (FF)	0.10232	0.24308	0.57249
	D->Y (FF)	0.09422	0.23605	0.56742

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X1P4H7R	A	0.00045	0.00054	0.00080
	A	0.00011	0.00011	0.00011
	A	-0.00005	-0.00005	-0.00005
	A	0.00156	0.00166	0.00191
	B	0.00047	0.00056	0.00081
	B	0.00007	0.00007	0.00007
	B	-0.00005	-0.00005	-0.00005
	B	0.00144	0.00153	0.00178
	C	0.00047	0.00057	0.00082
	C	0.00003	0.00003	0.00003
	C	-0.00005	-0.00005	-0.00003
	C	0.00132	0.00142	0.00168
	D	0.00048	0.00058	0.00086
	D	-0.00001	-0.00001	-0.00001
	D	-0.00005	-0.00005	-0.00004
	D	0.00125	0.00135	0.00163

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X1P4H7R	A	0.00173	0.00178	0.00195
	A	-0.00011	-0.00011	-0.00011
	A	0.00005	0.00005	0.00005
	A	0.00055	0.00061	0.00079
	B	0.00159	0.00164	0.00185
	B	-0.00007	-0.00007	-0.00006
	B	0.00005	0.00005	0.00005
	B	0.00057	0.00064	0.00085
	C	0.00145	0.00152	0.00177
	C	-0.00003	-0.00003	-0.00002
	C	0.00005	0.00005	0.00005
	C	0.00058	0.00065	0.00091
	D	0.00133	0.00142	0.00179
	D	0.00001	0.00001	0.00002
	D	0.00005	0.00005	0.00005
	D	0.00056	0.00064	0.00102

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7R	(B * D * Y)	-0.00008	-0.00007	-0.00007
	(B * D * Y)	-0.00001	-0.00001	-0.00001
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00025	0.00025	0.00025
	(B * C * !D * Y)	-0.00008	-0.00007	-0.00007
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00025	0.00025	0.00025
	(B * !C * !D * Y)	-0.00008	-0.00007	-0.00006
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00025	0.00025	0.00025
	(!B * C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00025	0.00025	0.00025
	(!B * C * !D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00025	0.00025	0.00025
	(!B * !C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00025	0.00025	0.00025

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7R	(B * D * Y)	0.00008	0.00008	0.00008
	(B * D * Y)	0.00001	0.00001	0.00001
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00025	-0.00025	-0.00025
	(B * C * !D * Y)	0.00008	0.00008	0.00008
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00025	-0.00025	-0.00025
	(B * !C * !D * Y)	0.00008	0.00008	0.00008
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00025	-0.00025	-0.00025
	(!B * C * D * Y)	0.00008	0.00008	0.00008
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00025	-0.00025	-0.00025
	(!B * C * !D * Y)	0.00008	0.00008	0.00008
	(!B * C * !D * Y)	0.00001	0.00001	0.00001
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00025	-0.00025	-0.00025
	(!B * !C * D * Y)	0.00008	0.00008	0.00008
	(!B * !C * D * Y)	0.00000	0.00001	0.00001
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00025	-0.00025	-0.00025

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7R	(A * C * D * Y)	-0.00000	-0.00000	0.00000
	(A * C * D * Y)	-0.00004	-0.00004	-0.00004
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00021	0.00021	0.00021
	(A * C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * C * !D * Y)	-0.00004	-0.00004	-0.00004
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00021	0.00021	0.00022
	(A * !C * D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00021	0.00021	0.00021
	(A * !C * !D * Y)	-0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00021	0.00021	0.00021
	(!A * C * D * Y)	-0.00008	-0.00008	-0.00006
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00021	0.00021	0.00021
	(!A * C * !D * Y)	-0.00008	-0.00008	-0.00006
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00021	0.00021	0.00021
	(!A * !C * D * Y)	-0.00008	-0.00007	-0.00005
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00021	0.00021	0.00021

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7R	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00004	0.00004	0.00004
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00021	-0.00021	-0.00021
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00004	0.00004	0.00004
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00021	-0.00021	-0.00021
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00004	0.00004	0.00004
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00021	-0.00021	-0.00021
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00003	0.00003	0.00003
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00021	-0.00021	-0.00021
	(!A * C * D * Y)	0.00008	0.00008	0.00008
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00021	-0.00021	-0.00021
	(!A * C * !D * Y)	0.00009	0.00009	0.00009
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00021	-0.00021	-0.00021
	(!A * !C * D * Y)	0.00008	0.00008	0.00008
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7R	(B * D * Y)	-0.00000	0.00000	0.00000
	(B * D * Y)	-0.00004	-0.00004	-0.00004
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00020	0.00021	0.00021
	(B * !D * Y)	-0.00000	0.00000	0.00000
	(B * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00020	0.00020	0.00020
	(A * !B * D * Y)	-0.00000	0.00000	0.00000
	(A * !B * D * Y)	-0.00004	-0.00004	-0.00004
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00020	0.00021	0.00021
	(A * !B * !D * Y)	-0.00000	-0.00000	0.00000
	(A * !B * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00020	0.00020	0.00021
	(!A * !B * D * Y)	-0.00009	-0.00008	-0.00006
	(!A * !B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	0.00020	0.00021	0.00022

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7R	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00004	0.00004	0.00004
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00021	-0.00020	-0.00020
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00003	0.00003	0.00003
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00020	-0.00020	-0.00020
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00004	0.00004	0.00004
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00020	-0.00020	-0.00020
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00003	0.00003	0.00003
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00020	-0.00020	-0.00020
	(!A * !B * D * Y)	0.00009	0.00009	0.00009
	(!A * !B * D * Y)	0.00001	0.00001	0.00001
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00020	-0.00020	-0.00020

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7R	(C * Y)	-0.00000	0.00000	0.00000
	(C * Y)	-0.00002	-0.00002	-0.00002
	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00027	0.00027	0.00027
	(B * !C * Y)	-0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00027	0.00027	0.00027
	(A * !B * !C * Y)	-0.00000	0.00000	0.00000
	(A * !B * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for D falling (conditional):

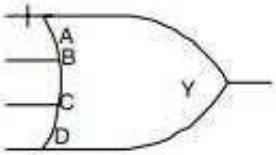
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X1P4H7R	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00002	0.00002	0.00002
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00027	-0.00027	-0.00027
	(B * !C * Y)	-0.00000	0.00000	0.00000
	(B * !C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00027	-0.00027	-0.00026
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00002	0.00002	0.00002
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00027	-0.00027	-0.00026

OR4X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X2H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X2H7R	0.00077	0.00072	0.00068	0.00067	0.08507

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X2H7R	0.00000	0.31823	0.64864

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X2H7R	A->Y (RR)	0.03943	0.18993	0.54851
	B->Y (RR)	0.03836	0.18739	0.54250
	C->Y (RR)	0.03665	0.18424	0.53605
	D->Y (RR)	0.03521	0.18117	0.52992

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X2H7R	A->Y (FF)	0.13134	0.26550	0.57119
	B->Y (FF)	0.12699	0.26757	0.59004
	C->Y (FF)	0.11959	0.26658	0.60478
	D->Y (FF)	0.11059	0.25901	0.60001

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X2H7R	A	0.00069	0.00080	0.00110
	A	0.00010	0.00010	0.00010
	A	-0.00004	-0.00004	-0.00003
	A	0.00183	0.00194	0.00224
	B	0.00067	0.00081	0.00112
	B	0.00006	0.00006	0.00009
	B	-0.00004	-0.00004	0.00000
	B	0.00168	0.00180	0.00210
	C	0.00071	0.00082	0.00114
	C	0.00002	0.00002	0.00002
	C	-0.00004	-0.00004	-0.00004
	C	0.00157	0.00168	0.00200
	D	0.00072	0.00083	0.00118
	D	-0.00002	-0.00002	-0.00001
	D	-0.00004	-0.00004	-0.00004
	D	0.00148	0.00160	0.00194

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X2H7R	A	0.00208	0.00215	0.00242
	A	-0.00010	-0.00010	-0.00010
	A	0.00004	0.00004	0.00005
	A	0.00088	0.00096	0.00123
	B	0.00195	0.00202	0.00233
	B	-0.00007	-0.00006	-0.00006
	B	0.00004	0.00004	0.00004
	B	0.00089	0.00099	0.00131
	C	0.00179	0.00187	0.00226
	C	-0.00002	-0.00002	-0.00001
	C	0.00004	0.00004	0.00004
	C	0.00089	0.00100	0.00139
	D	0.00166	0.00177	0.00230
	D	0.00001	0.00002	0.00002
	D	0.00004	0.00004	0.00004
	D	0.00090	0.00101	0.00154

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7R	(B * D * Y)	-0.00008	-0.00007	-0.00007
	(B * D * Y)	-0.00001	-0.00001	-0.00001
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00027	0.00027	0.00027
	(B * C * !D * Y)	-0.00008	-0.00007	-0.00007
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00000	0.00000	0.00000
	(B * C * !D * Y)	0.00027	0.00027	0.00027
	(B * !C * !D * Y)	-0.00008	-0.00007	-0.00007
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00000	0.00000	0.00000
	(B * !C * !D * Y)	0.00027	0.00027	0.00027
	(!B * C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * D * Y)	0.00000	0.00000	0.00000
	(!B * C * D * Y)	0.00027	0.00027	0.00027
	(!B * C * !D * Y)	-0.00008	-0.00007	-0.00006
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !D * Y)	0.00000	0.00000	0.00000
	(!B * C * !D * Y)	0.00027	0.00027	0.00027
	(!B * !C * D * Y)	-0.00008	-0.00007	-0.00006
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * D * Y)	0.00000	0.00000	0.00000
	(!B * !C * D * Y)	0.00027	0.00027	0.00027

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7R	(B * D * Y)	0.00008	0.00008	0.00008
	(B * D * Y)	0.00001	0.00001	0.00001
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00027	-0.00027	-0.00027
	(B * C * !D * Y)	0.00008	0.00008	0.00008
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * C * !D * Y)	-0.00027	-0.00027	-0.00027
	(B * !C * !D * Y)	0.00008	0.00008	0.00008
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * !D * Y)	-0.00027	-0.00027	-0.00027
	(!B * C * D * Y)	0.00008	0.00008	0.00008
	(!B * C * D * Y)	0.00001	0.00001	0.00001
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00027	-0.00027	-0.00027
	(!B * C * !D * Y)	0.00008	0.00008	0.00008
	(!B * C * !D * Y)	0.00001	0.00001	0.00001
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00027	-0.00027	-0.00027
	(!B * !C * D * Y)	0.00008	0.00008	0.00008
	(!B * !C * D * Y)	0.00000	0.00001	0.00001
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00027	-0.00027	-0.00027

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7R	(A * C * D * Y)	-0.00000	-0.00000	0.00000
	(A * C * D * Y)	-0.00005	-0.00005	-0.00004
	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00022	0.00022	0.00022
	(A * C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * C * !D * Y)	-0.00004	-0.00004	-0.00004
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00022	0.00022	0.00022
	(A * !C * D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * D * Y)	-0.00004	-0.00004	-0.00004
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00022	0.00022	0.00022
	(A * !C * !D * Y)	-0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00022	0.00022	0.00022
	(!A * C * D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00000	0.00000	0.00000
	(!A * C * D * Y)	0.00022	0.00022	0.00022
	(!A * C * !D * Y)	-0.00009	-0.00008	-0.00007
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * Y)	0.00000	0.00000	0.00000
	(!A * C * !D * Y)	0.00022	0.00022	0.00022
	(!A * !C * D * Y)	-0.00009	-0.00007	-0.00006
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * Y)	0.00000	0.00000	0.00000
	(!A * !C * D * Y)	0.00022	0.00022	0.00022

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7R	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00004	0.00005	0.00005
	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00022	-0.00022	-0.00022
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00004	0.00004	0.00004
	(A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * !D * Y)	-0.00022	-0.00022	-0.00022
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00004	0.00004	0.00004
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00022	-0.00022	-0.00022
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00003	0.00003	0.00003
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00022	-0.00022	-0.00022
	(!A * C * D * Y)	0.00009	0.00009	0.00009
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00022	-0.00022	-0.00022
	(!A * C * !D * Y)	0.00009	0.00009	0.00009
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00022	-0.00022	-0.00021
	(!A * !C * D * Y)	0.00009	0.00009	0.00009
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00022	-0.00022	-0.00021

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7R	(B * D * Y)	-0.00000	0.00000	0.00000
	(B * D * Y)	-0.00004	-0.00004	-0.00004
	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00022	0.00022	0.00022
	(B * !D * Y)	-0.00000	0.00000	0.00000
	(B * !D * Y)	-0.00003	-0.00003	-0.00003
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00021	0.00021	0.00022
	(A * !B * D * Y)	-0.00000	0.00000	0.00000
	(A * !B * D * Y)	-0.00004	-0.00004	-0.00004
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00022	0.00022	0.00022
	(A * !B * !D * Y)	-0.00000	0.00000	0.00000
	(A * !B * !D * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00021	0.00021	0.00022
	(!A * !B * D * Y)	-0.00008	-0.00007	-0.00006
	(!A * !B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * D * Y)	0.00000	0.00000	0.00000
	(!A * !B * D * Y)	0.00021	0.00022	0.00022

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7R	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00004	0.00004	0.00004
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00022	-0.00021	-0.00021
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00003	0.00003	0.00003
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00021	-0.00021	-0.00021
	(A * !B * D * Y)	-0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00004	0.00004	0.00004
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00021	-0.00021	-0.00021
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00003	0.00003	0.00003
	(A * !B * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !D * Y)	-0.00022	-0.00021	-0.00021
	(!A * !B * D * Y)	0.00008	0.00009	0.00009
	(!A * !B * D * Y)	0.00001	0.00001	0.00001
	(!A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !B * D * Y)	-0.00021	-0.00021	-0.00021

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7R	(C * Y)	-0.00000	0.00000	0.00000
	(C * Y)	-0.00002	-0.00002	-0.00002
	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00026	0.00026	0.00026
	(B * !C * Y)	-0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00026	0.00026	0.00026
	(A * !B * !C * Y)	-0.00000	0.00000	0.00000
	(A * !B * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for D falling (conditional):

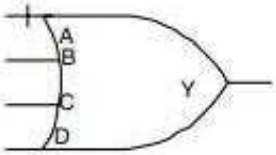
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X2H7R	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00002	0.00002	0.00002
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00026	-0.00026	-0.00026
	(B * !C * Y)	-0.00000	0.00000	0.00000
	(B * !C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00026	-0.00026	-0.00025
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00002	0.00002	0.00002
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00026	-0.00026	-0.00026

OR4X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X3H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X3H7R	0.00088	0.00077	0.00079	0.00078	0.12059

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X3H7R	0.00000	0.43511	0.85859

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X3H7R	A->Y (RR)	0.03358	0.18222	0.53737
	B->Y (RR)	0.03241	0.17941	0.53082
	C->Y (RR)	0.03127	0.17658	0.52408
	D->Y (RR)	0.02976	0.17337	0.51755

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X3H7R	A->Y (FF)	0.11276	0.24586	0.54870
	B->Y (FF)	0.10754	0.24664	0.56473
	C->Y (FF)	0.10228	0.24680	0.57870
	D->Y (FF)	0.09322	0.23870	0.57196

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X3H7R	A	0.00078	0.00091	0.00134
	A	0.00013	0.00013	0.00013
	A	-0.00005	-0.00005	-0.00001
	A	0.00208	0.00225	0.00268
	B	0.00079	0.00093	0.00136
	B	0.00008	0.00008	0.00008
	B	-0.00005	-0.00005	-0.00001
	B	0.00189	0.00205	0.00249
	C	0.00080	0.00094	0.00138
	C	0.00002	0.00003	0.00003
	C	-0.00005	-0.00005	-0.00005
	C	0.00177	0.00192	0.00236
	D	0.00081	0.00095	0.00144
	D	-0.00003	-0.00003	-0.00003
	D	-0.00006	-0.00005	-0.00002
	D	0.00165	0.00180	0.00229

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X3H7R	A	0.00242	0.00250	0.00285
	A	-0.00013	-0.00013	-0.00013
	A	0.00005	0.00005	0.00006
	A	0.00100	0.00109	0.00145
	B	0.00222	0.00230	0.00274
	B	-0.00008	-0.00008	-0.00008
	B	0.00005	0.00006	0.00006
	B	0.00098	0.00113	0.00157
	C	0.00204	0.00214	0.00266
	C	-0.00003	-0.00003	-0.00002
	C	0.00005	0.00005	0.00006
	C	0.00105	0.00114	0.00167
	D	0.00187	0.00200	0.00272
	D	0.00003	0.00003	0.00003
	D	0.00005	0.00005	0.00006
	D	0.00102	0.00115	0.00187

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7R	(B * D * Y)	-0.00011	-0.00010	-0.00009
	(B * D * Y)	-0.00001	-0.00001	-0.00001
	(B * D * Y)	0.00000	0.00000	0.00001
	(B * D * Y)	0.00030	0.00030	0.00030
	(B * C * !D * Y)	-0.00011	-0.00010	-0.00009
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * C * !D * Y)	0.00000	0.00001	0.00001
	(B * C * !D * Y)	0.00030	0.00030	0.00030
	(B * !C * !D * Y)	-0.00011	-0.00010	-0.00009
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00000	0.00001	0.00001
	(B * !C * !D * Y)	0.00030	0.00030	0.00030
	(!B * C * D * Y)	-0.00010	-0.00009	-0.00008
	(!B * C * D * Y)	-0.00002	-0.00001	-0.00001
	(!B * C * D * Y)	0.00000	0.00001	0.00001
	(!B * C * D * Y)	0.00030	0.00030	0.00030
	(!B * C * !D * Y)	-0.00011	-0.00009	-0.00008
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !D * Y)	0.00000	0.00001	0.00000
	(!B * C * !D * Y)	0.00030	0.00030	0.00030
	(!B * !C * D * Y)	-0.00010	-0.00009	-0.00008
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	0.00000	0.00001	0.00000
	(!B * !C * D * Y)	0.00030	0.00030	0.00030

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7R	(B * D * Y)	0.00011	0.00011	0.00011
	(B * D * Y)	0.00001	0.00001	0.00001
	(B * D * Y)	-0.00000	-0.00000	-0.00000
	(B * D * Y)	-0.00030	-0.00030	-0.00029
	(B * C * !D * Y)	0.00011	0.00011	0.00011
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	-0.00000	-0.00001	-0.00000
	(B * C * !D * Y)	-0.00030	-0.00030	-0.00030
	(B * !C * !D * Y)	0.00011	0.00011	0.00011
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !D * Y)	-0.00030	-0.00030	-0.00030
	(!B * C * D * Y)	0.00010	0.00010	0.00010
	(!B * C * D * Y)	0.00001	0.00001	0.00002
	(!B * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * D * Y)	-0.00030	-0.00030	-0.00029
	(!B * C * !D * Y)	0.00010	0.00011	0.00011
	(!B * C * !D * Y)	0.00001	0.00001	0.00001
	(!B * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!B * C * !D * Y)	-0.00030	-0.00030	-0.00029
	(!B * !C * D * Y)	0.00010	0.00010	0.00011
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!B * !C * D * Y)	-0.00030	-0.00030	-0.00030

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7R	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00006	-0.00006	-0.00006
	(A * C * D * Y)	0.00000	0.00001	0.00000
	(A * C * D * Y)	0.00022	0.00023	0.00023
	(A * C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * C * !D * Y)	-0.00006	-0.00006	-0.00006
	(A * C * !D * Y)	0.00000	0.00001	0.00001
	(A * C * !D * Y)	0.00023	0.00023	0.00023
	(A * !C * D * Y)	-0.00000	0.00000	0.00000
	(A * !C * D * Y)	-0.00005	-0.00006	-0.00005
	(A * !C * D * Y)	0.00000	0.00001	0.00001
	(A * !C * D * Y)	0.00023	0.00023	0.00023
	(A * !C * !D * Y)	-0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00004	-0.00004	-0.00004
	(A * !C * !D * Y)	0.00000	0.00001	0.00000
	(A * !C * !D * Y)	0.00022	0.00023	0.00023
	(!A * C * D * Y)	-0.00011	-0.00010	-0.00009
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * D * Y)	0.00000	0.00001	0.00001
	(!A * C * D * Y)	0.00022	0.00022	0.00022
	(!A * C * !D * Y)	-0.00011	-0.00010	-0.00008
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * Y)	0.00000	0.00001	0.00001
	(!A * C * !D * Y)	0.00022	0.00022	0.00022
	(!A * !C * D * Y)	-0.00011	-0.00009	-0.00007
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * Y)	0.00000	0.00001	0.00000
	(!A * !C * D * Y)	0.00022	0.00022	0.00023

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7R	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00006	0.00006	0.00006
	(A * C * D * Y)	-0.00000	-0.00001	-0.00000
	(A * C * D * Y)	-0.00023	-0.00022	-0.00022
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00006	0.00006	0.00006
	(A * C * !D * Y)	-0.00000	-0.00001	-0.00000
	(A * C * !D * Y)	-0.00023	-0.00023	-0.00023
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00005	0.00006	0.00005
	(A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * D * Y)	-0.00023	-0.00022	-0.00022
	(A * !C * !D * Y)	0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00004	0.00004	0.00004
	(A * !C * !D * Y)	-0.00000	-0.00000	-0.00000
	(A * !C * !D * Y)	-0.00023	-0.00022	-0.00022
	(!A * C * D * Y)	0.00011	0.00011	0.00011
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * D * Y)	-0.00022	-0.00022	-0.00022
	(!A * C * !D * Y)	0.00011	0.00011	0.00011
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	-0.00000	-0.00000	-0.00000
	(!A * C * !D * Y)	-0.00022	-0.00022	-0.00022
	(!A * !C * D * Y)	0.00011	0.00011	0.00011
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	-0.00000	-0.00000	-0.00000
	(!A * !C * D * Y)	-0.00022	-0.00022	-0.00022

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7R	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	-0.00006	-0.00006	-0.00006
	(B * D * Y)	0.00000	0.00001	0.00001
	(B * D * Y)	0.00023	0.00023	0.00024
	(B * !D * Y)	-0.00000	0.00000	0.00000
	(B * !D * Y)	-0.00004	-0.00004	-0.00004
	(B * !D * Y)	0.00000	0.00001	0.00001
	(B * !D * Y)	0.00023	0.00023	0.00023
	(A * !B * D * Y)	-0.00000	0.00000	0.00000
	(A * !B * D * Y)	-0.00006	-0.00006	-0.00006
	(A * !B * D * Y)	0.00000	0.00001	0.00001
	(A * !B * D * Y)	0.00023	0.00023	0.00024
	(A * !B * !D * Y)	-0.00000	0.00000	0.00000
	(A * !B * !D * Y)	-0.00004	-0.00004	-0.00004
	(A * !B * !D * Y)	0.00000	0.00001	0.00001
	(A * !B * !D * Y)	0.00023	0.00023	0.00024
	(!A * !B * D * Y)	-0.00012	-0.00010	-0.00009
	(!A * !B * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !B * D * Y)	0.00000	0.00001	0.00001
	(!A * !B * D * Y)	0.00023	0.00023	0.00025

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7R	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00006	0.00006	0.00006
	(B * D * Y)	-0.00000	-0.00001	-0.00000
	(B * D * Y)	-0.00023	-0.00023	-0.00023
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00004	0.00004	0.00004
	(B * !D * Y)	-0.00000	-0.00000	-0.00000
	(B * !D * Y)	-0.00023	-0.00023	-0.00023
	(A * !B * D * Y)	-0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00006	0.00006	0.00006
	(A * !B * D * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * D * Y)	-0.00023	-0.00023	-0.00023
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00004	0.00004	0.00004
	(A * !B * !D * Y)	-0.00000	-0.00001	-0.00000
	(A * !B * !D * Y)	-0.00023	-0.00023	-0.00023
	(!A * !B * D * Y)	0.00012	0.00012	0.00012
	(!A * !B * D * Y)	0.00001	0.00001	0.00001
	(!A * !B * D * Y)	-0.00000	-0.00001	-0.00000
	(!A * !B * D * Y)	-0.00023	-0.00023	-0.00023

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7R	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	-0.00002	-0.00003	-0.00002
	(C * Y)	0.00000	0.00001	0.00001
	(C * Y)	0.00030	0.00030	0.00030
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * Y)	0.00000	0.00000	0.00001
	(B * !C * Y)	0.00030	0.00030	0.00030
	(A * !B * !C * Y)	-0.00000	0.00000	0.00000
	(A * !B * !C * Y)	-0.00002	-0.00002	-0.00002
	(A * !B * !C * Y)	0.00000	0.00001	0.00001
	(A * !B * !C * Y)	0.00029	0.00030	0.00030

Passive power(pJ) for D falling (conditional):

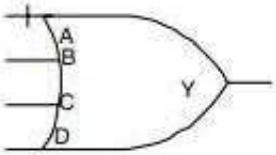
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X3H7R	(C * Y)	-0.00000	0.00000	0.00000
	(C * Y)	0.00003	0.00003	0.00003
	(C * Y)	-0.00000	-0.00000	-0.00000
	(C * Y)	-0.00030	-0.00030	-0.00030
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00002	0.00002	0.00002
	(B * !C * Y)	-0.00000	-0.00000	-0.00000
	(B * !C * Y)	-0.00030	-0.00030	-0.00029
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00002	0.00002	0.00002
	(A * !B * !C * Y)	-0.00000	-0.00000	-0.00000
	(A * !B * !C * Y)	-0.00030	-0.00030	-0.00029

OR4X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X4H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X4H7R	0.00091	0.00087	0.00085	0.00083	0.16208

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X4H7R	0.00000	0.58490	1.01031

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X4H7R	A->Y (RR)	0.03500	0.18511	0.54259
	B->Y (RR)	0.03411	0.18274	0.53759
	C->Y (RR)	0.03282	0.17994	0.53131
	D->Y (RR)	0.03128	0.17685	0.52459

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X4H7R	A->Y (FF)	0.12287	0.25892	0.56525
	B->Y (FF)	0.11916	0.26097	0.58295
	C->Y (FF)	0.11297	0.26070	0.59785
	D->Y (FF)	0.10349	0.25218	0.59078

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X4H7R	A	0.00123	0.00140	0.00197
	A	0.00014	0.00014	0.00014
	A	-0.00006	-0.00006	-0.00005
	A	0.00266	0.00285	0.00341
	B	0.00125	0.00142	0.00199
	B	0.00008	0.00008	0.00008
	B	-0.00006	-0.00006	-0.00006
	B	0.00248	0.00266	0.00322
	C	0.00126	0.00144	0.00202
	C	0.00002	0.00002	0.00002
	C	-0.00006	-0.00006	-0.00005
	C	0.00231	0.00249	0.00307
	D	0.00128	0.00145	0.00208
	D	-0.00005	-0.00005	-0.00005
	D	-0.00006	-0.00006	-0.00005
	D	0.00216	0.00236	0.00298

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X4H7R	A	0.00300	0.00312	0.00366
	A	-0.00014	-0.00014	-0.00014
	A	0.00005	0.00006	0.00006
	A	0.00144	0.00159	0.00215
	B	0.00280	0.00292	0.00356
	B	-0.00008	-0.00008	-0.00008
	B	0.00006	0.00006	0.00006
	B	0.00146	0.00163	0.00228
	C	0.00259	0.00273	0.00350
	C	-0.00002	-0.00002	-0.00002
	C	0.00005	0.00006	0.00006
	C	0.00146	0.00165	0.00243
	D	0.00239	0.00257	0.00359
	D	0.00005	0.00005	0.00007
	D	0.00005	0.00006	0.00006
	D	0.00146	0.00166	0.00270

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7R	(B * D * Y)	-0.00012	-0.00011	-0.00010
	(B * D * Y)	-0.00002	-0.00002	-0.00002
	(B * D * Y)	0.00000	0.00001	0.00001
	(B * D * Y)	0.00031	0.00031	0.00031
	(B * C * !D * Y)	-0.00012	-0.00011	-0.00010
	(B * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y)	0.00001	0.00001	0.00001
	(B * C * !D * Y)	0.00031	0.00031	0.00031
	(B * !C * !D * Y)	-0.00012	-0.00011	-0.00010
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	0.00000	0.00001	0.00001
	(B * !C * !D * Y)	0.00030	0.00031	0.00031
	(!B * C * D * Y)	-0.00012	-0.00011	-0.00009
	(!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * D * Y)	0.00000	0.00001	0.00001
	(!B * C * D * Y)	0.00030	0.00031	0.00031
	(!B * C * !D * Y)	-0.00012	-0.00011	-0.00009
	(!B * C * !D * Y)	-0.00002	-0.00002	-0.00001
	(!B * C * !D * Y)	0.00001	0.00001	0.00001
	(!B * C * !D * Y)	0.00030	0.00031	0.00031
	(!B * !C * D * Y)	-0.00012	-0.00010	-0.00009
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	0.00030	0.00031	0.00031

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7R	(B * D * Y)	0.00012	0.00012	0.00012
	(B * D * Y)	0.00002	0.00002	0.00002
	(B * D * Y)	-0.00001	-0.00001	-0.00000
	(B * D * Y)	-0.00031	-0.00031	-0.00030
	(B * C * !D * Y)	0.00012	0.00012	0.00012
	(B * C * !D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(B * C * !D * Y)	-0.00031	-0.00031	-0.00030
	(B * !C * !D * Y)	0.00013	0.00013	0.00013
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * !D * Y)	-0.00031	-0.00031	-0.00030
	(!B * C * D * Y)	0.00012	0.00012	0.00012
	(!B * C * D * Y)	0.00002	0.00002	0.00002
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * D * Y)	-0.00031	-0.00030	-0.00030
	(!B * C * !D * Y)	0.00012	0.00012	0.00012
	(!B * C * !D * Y)	0.00001	0.00002	0.00002
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * !D * Y)	-0.00031	-0.00031	-0.00030
	(!B * !C * D * Y)	0.00012	0.00012	0.00012
	(!B * !C * D * Y)	0.00001	0.00002	0.00002
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!B * !C * D * Y)	-0.00031	-0.00031	-0.00030

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7R	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00007	-0.00007	-0.00007
	(A * C * D * Y)	0.00001	0.00001	0.00001
	(A * C * D * Y)	0.00026	0.00026	0.00026
	(A * C * !D * Y)	-0.00000	-0.00000	0.00000
	(A * C * !D * Y)	-0.00006	-0.00006	-0.00006
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	0.00026	0.00026	0.00026
	(A * !C * D * Y)	-0.00000	-0.00000	0.00000
	(A * !C * D * Y)	-0.00006	-0.00006	-0.00006
	(A * !C * D * Y)	0.00000	0.00001	0.00001
	(A * !C * D * Y)	0.00026	0.00026	0.00026
	(A * !C * !D * Y)	-0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00005	-0.00005	-0.00005
	(A * !C * !D * Y)	0.00000	0.00001	0.00001
	(A * !C * !D * Y)	0.00026	0.00026	0.00026
	(!A * C * D * Y)	-0.00013	-0.00012	-0.00010
	(!A * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * D * Y)	0.00001	0.00001	0.00001
	(!A * C * D * Y)	0.00026	0.00026	0.00026
	(!A * C * !D * Y)	-0.00013	-0.00012	-0.00010
	(!A * C * !D * Y)	-0.00002	-0.00002	-0.00001
	(!A * C * !D * Y)	0.00000	0.00001	0.00001
	(!A * C * !D * Y)	0.00025	0.00026	0.00026
	(!A * !C * D * Y)	-0.00012	-0.00011	-0.00008
	(!A * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	0.00026	0.00026	0.00026

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7R	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00007	0.00007	0.00007
	(A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * D * Y)	-0.00026	-0.00026	-0.00026
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00006	0.00006	0.00006
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(A * C * !D * Y)	-0.00026	-0.00026	-0.00026
	(A * !C * D * Y)	0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00006	0.00006	0.00006
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * D * Y)	-0.00026	-0.00026	-0.00026
	(A * !C * !D * Y)	-0.00000	0.00000	0.00000
	(A * !C * !D * Y)	0.00005	0.00005	0.00005
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !D * Y)	-0.00026	-0.00026	-0.00025
	(!A * C * D * Y)	0.00012	0.00013	0.00013
	(!A * C * D * Y)	0.00002	0.00002	0.00002
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * D * Y)	-0.00026	-0.00026	-0.00025
	(!A * C * !D * Y)	0.00013	0.00013	0.00013
	(!A * C * !D * Y)	0.00001	0.00002	0.00002
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * !D * Y)	-0.00026	-0.00026	-0.00025
	(!A * !C * D * Y)	0.00012	0.00012	0.00012
	(!A * !C * D * Y)	0.00001	0.00002	0.00002
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * !C * D * Y)	-0.00026	-0.00025	-0.00025

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7R	(B * D * Y)	-0.00000	0.00000	0.00000
	(B * D * Y)	-0.00006	-0.00006	-0.00006
	(B * D * Y)	0.00001	0.00001	0.00001
	(B * D * Y)	0.00025	0.00025	0.00025
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	-0.00005	-0.00005	-0.00004
	(B * !D * Y)	0.00001	0.00001	0.00001
	(B * !D * Y)	0.00025	0.00025	0.00025
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	-0.00006	-0.00006	-0.00006
	(A * !B * D * Y)	0.00000	0.00001	0.00001
	(A * !B * D * Y)	0.00025	0.00025	0.00025
	(A * !B * !D * Y)	-0.00000	0.00000	0.00000
	(A * !B * !D * Y)	-0.00004	-0.00004	-0.00004
	(A * !B * !D * Y)	0.00000	0.00001	0.00001
	(A * !B * !D * Y)	0.00024	0.00025	0.00025
	(!A * !B * D * Y)	-0.00013	-0.00011	-0.00009
	(!A * !B * D * Y)	-0.00002	-0.00001	-0.00001
	(!A * !B * D * Y)	0.00000	0.00001	0.00001
	(!A * !B * D * Y)	0.00024	0.00025	0.00026

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7R	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00006	0.00006	0.00006
	(B * D * Y)	-0.00001	-0.00001	-0.00001
	(B * D * Y)	-0.00025	-0.00024	-0.00024
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	0.00005	0.00005	0.00005
	(B * !D * Y)	-0.00001	-0.00001	-0.00000
	(B * !D * Y)	-0.00025	-0.00024	-0.00025
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00006	0.00006	0.00006
	(A * !B * D * Y)	-0.00001	-0.00001	-0.00000
	(A * !B * D * Y)	-0.00025	-0.00024	-0.00024
	(A * !B * !D * Y)	-0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00004	0.00005	0.00005
	(A * !B * !D * Y)	-0.00001	-0.00001	-0.00000
	(A * !B * !D * Y)	-0.00025	-0.00024	-0.00024
	(!A * !B * D * Y)	0.00013	0.00013	0.00013
	(!A * !B * D * Y)	0.00001	0.00001	0.00002
	(!A * !B * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * !B * D * Y)	-0.00024	-0.00024	-0.00024

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7R	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	-0.00003	-0.00003	-0.00003
	(C * Y)	0.00001	0.00001	0.00001
	(C * Y)	0.00031	0.00032	0.00032
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00003	-0.00003	-0.00003
	(B * !C * Y)	0.00000	0.00001	0.00001
	(B * !C * Y)	0.00031	0.00032	0.00032
	(A * !B * !C * Y)	-0.00000	0.00000	0.00000
	(A * !B * !C * Y)	-0.00003	-0.00003	-0.00003
	(A * !B * !C * Y)	0.00000	0.00001	0.00001
	(A * !B * !C * Y)	0.00031	0.00032	0.00032

Passive power(pJ) for D falling (conditional):

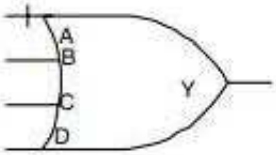
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X4H7R	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00003	0.00003	0.00003
	(C * Y)	-0.00001	-0.00001	-0.00000
	(C * Y)	-0.00032	-0.00031	-0.00031
	(B * !C * Y)	-0.00000	0.00000	0.00000
	(B * !C * Y)	0.00003	0.00003	0.00003
	(B * !C * Y)	-0.00001	-0.00001	-0.00000
	(B * !C * Y)	-0.00032	-0.00031	-0.00031
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00003	0.00003	0.00003
	(A * !B * !C * Y)	-0.00001	-0.00001	-0.00000
	(A * !B * !C * Y)	-0.00032	-0.00031	-0.00031

OR4X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The OR4 cell provides the logical OR of four inputs (A, B, C, D). The output (Y) is represented by the logic equation:



Truth Table

INPUT				OUTPUT
A	B	C	D	Y
0	0	0	0	0
0	0	x	1	1
0	x	1	x	1
x	1	x	x	1
1	x	x	x	1

Footprint

Cell Name	Area
OR4X6H7R	3.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	A	B	C	D	Y
OR4X6H7R	0.00100	0.00100	0.00094	0.00122	0.24074

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
OR4X6H7R	0.00000	0.82974	1.27254

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X6H7R	A->Y (RR)	0.03592	0.18871	0.55285
	B->Y (RR)	0.03517	0.18644	0.54600
	C->Y (RR)	0.03371	0.18369	0.54055
	D->Y (RR)	0.03088	0.17657	0.52225

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
OR4X6H7R	A->Y (FF)	0.13140	0.27311	0.58749
	B->Y (FF)	0.12830	0.27562	0.60619
	C->Y (FF)	0.12165	0.27513	0.62136
	D->Y (FF)	0.11550	0.26971	0.62112

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X6H7R	A	0.00169	0.00191	0.00276
	A	0.00014	0.00015	0.00015
	A	-0.00005	-0.00005	-0.00005
	A	0.00336	0.00359	0.00443
	B	0.00170	0.00192	0.00279
	B	0.00007	0.00007	0.00008
	B	-0.00005	-0.00005	-0.00005
	B	0.00315	0.00338	0.00423
	C	0.00172	0.00195	0.00282
	C	0.00000	0.00000	0.00000
	C	-0.00005	-0.00005	0.00002
	C	0.00287	0.00317	0.00404
	D	0.00170	0.00194	0.00288
	D	-0.00009	-0.00008	-0.00008
	D	-0.00005	-0.00005	-0.00004
	D	0.00285	0.00311	0.00404

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
OR4X6H7R	A	0.00390	0.00409	0.00502
	A	-0.00015	-0.00015	-0.00014
	A	0.00005	0.00005	0.00005
	A	0.00205	0.00231	0.00324
	B	0.00367	0.00386	0.00492
	B	-0.00008	-0.00007	-0.00007
	B	0.00005	0.00005	0.00005
	B	0.00206	0.00233	0.00341
	C	0.00341	0.00362	0.00487
	C	0.00000	0.00000	0.00000
	C	0.00005	0.00005	0.00005
	C	0.00203	0.00236	0.00363
	D	0.00321	0.00350	0.00512
	D	0.00008	0.00008	0.00011
	D	0.00004	0.00005	0.00005
	D	0.00203	0.00232	0.00397

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7R	(B * D * Y)	-0.00015	-0.00014	-0.00012
	(B * D * Y)	-0.00002	-0.00002	-0.00002
	(B * D * Y)	0.00001	0.00001	0.00001
	(B * D * Y)	0.00032	0.00032	0.00032
	(B * C * !D * Y)	-0.00015	-0.00014	-0.00012
	(B * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * C * !D * Y)	0.00000	0.00001	0.00001
	(B * C * !D * Y)	0.00032	0.00032	0.00033
	(B * !C * !D * Y)	-0.00015	-0.00014	-0.00012
	(B * !C * !D * Y)	-0.00002	-0.00002	-0.00002
	(B * !C * !D * Y)	0.00001	0.00001	0.00001
	(B * !C * !D * Y)	0.00032	0.00032	0.00032
	(!B * C * D * Y)	-0.00014	-0.00013	-0.00011
	(!B * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * D * Y)	0.00000	0.00001	0.00001
	(!B * C * D * Y)	0.00032	0.00032	0.00033
	(!B * C * !D * Y)	-0.00014	-0.00013	-0.00011
	(!B * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!B * C * !D * Y)	0.00001	0.00001	0.00001
	(!B * C * !D * Y)	0.00032	0.00032	0.00032
	(!B * !C * D * Y)	-0.00014	-0.00012	-0.00010
	(!B * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(!B * !C * D * Y)	0.00001	0.00001	0.00001
	(!B * !C * D * Y)	0.00032	0.00032	0.00032

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7R	(B * D * Y)	0.00014	0.00015	0.00015
	(B * D * Y)	0.00002	0.00002	0.00002
	(B * D * Y)	-0.00001	-0.00001	-0.00001
	(B * D * Y)	-0.00032	-0.00032	-0.00032
	(B * C * !D * Y)	0.00014	0.00015	0.00015
	(B * C * !D * Y)	0.00002	0.00002	0.00002
	(B * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(B * C * !D * Y)	-0.00032	-0.00032	-0.00032
	(B * !C * !D * Y)	0.00015	0.00015	0.00015
	(B * !C * !D * Y)	0.00002	0.00002	0.00002
	(B * !C * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * !D * Y)	-0.00032	-0.00032	-0.00032
	(!B * C * D * Y)	0.00014	0.00014	0.00014
	(!B * C * D * Y)	0.00002	0.00002	0.00002
	(!B * C * D * Y)	-0.00001	-0.00001	-0.00000
	(!B * C * D * Y)	-0.00032	-0.00032	-0.00032
	(!B * C * !D * Y)	0.00014	0.00014	0.00014
	(!B * C * !D * Y)	0.00002	0.00002	0.00002
	(!B * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!B * C * !D * Y)	-0.00032	-0.00032	-0.00032
	(!B * !C * D * Y)	0.00014	0.00014	0.00014
	(!B * !C * D * Y)	0.00001	0.00002	0.00002
	(!B * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!B * !C * D * Y)	-0.00032	-0.00032	-0.00032

Passive power(pJ) for B rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7R	(A * C * D * Y)	-0.00000	-0.00000	-0.00000
	(A * C * D * Y)	-0.00008	-0.00008	-0.00008
	(A * C * D * Y)	0.00001	0.00001	0.00001
	(A * C * D * Y)	0.00029	0.00029	0.00029
	(A * C * !D * Y)	-0.00000	0.00000	0.00000
	(A * C * !D * Y)	-0.00008	-0.00008	-0.00008
	(A * C * !D * Y)	0.00001	0.00001	0.00001
	(A * C * !D * Y)	0.00029	0.00029	0.00029
	(A * !C * D * Y)	-0.00000	0.00000	0.00000
	(A * !C * D * Y)	-0.00008	-0.00007	-0.00007
	(A * !C * D * Y)	0.00001	0.00001	0.00001
	(A * !C * D * Y)	0.00029	0.00029	0.00029
	(A * !C * !D * Y)	-0.00000	0.00000	0.00000
	(A * !C * !D * Y)	-0.00006	-0.00006	-0.00005
	(A * !C * !D * Y)	0.00001	0.00001	0.00001
	(A * !C * !D * Y)	0.00028	0.00029	0.00029
	(!A * C * D * Y)	-0.00015	-0.00014	-0.00012
	(!A * C * D * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * D * Y)	0.00000	0.00001	0.00001
	(!A * C * D * Y)	0.00028	0.00028	0.00029
	(!A * C * !D * Y)	-0.00015	-0.00014	-0.00011
	(!A * C * !D * Y)	-0.00002	-0.00002	-0.00002
	(!A * C * !D * Y)	0.00001	0.00001	0.00001
	(!A * C * !D * Y)	0.00028	0.00028	0.00029
	(!A * !C * D * Y)	-0.00015	-0.00013	-0.00010
	(!A * !C * D * Y)	-0.00002	-0.00002	-0.00001
	(!A * !C * D * Y)	0.00001	0.00001	0.00001
	(!A * !C * D * Y)	0.00028	0.00028	0.00029

Passive power(pJ) for B falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7R	(A * C * D * Y)	0.00000	0.00000	0.00000
	(A * C * D * Y)	0.00008	0.00008	0.00008
	(A * C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * C * D * Y)	-0.00029	-0.00029	-0.00029
	(A * C * !D * Y)	0.00000	0.00000	0.00000
	(A * C * !D * Y)	0.00008	0.00008	0.00008
	(A * C * !D * Y)	-0.00001	-0.00001	-0.00000
	(A * C * !D * Y)	-0.00029	-0.00029	-0.00029
	(A * !C * D * Y)	-0.00000	0.00000	0.00000
	(A * !C * D * Y)	0.00007	0.00007	0.00008
	(A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !C * D * Y)	-0.00029	-0.00029	-0.00028
	(A * !C * !D * Y)	0.00000	0.00000	0.00001
	(A * !C * !D * Y)	0.00005	0.00006	0.00006
	(A * !C * !D * Y)	-0.00001	-0.00001	-0.00000
	(A * !C * !D * Y)	-0.00029	-0.00028	-0.00028
	(!A * C * D * Y)	0.00015	0.00015	0.00015
	(!A * C * D * Y)	0.00002	0.00002	0.00002
	(!A * C * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * C * D * Y)	-0.00029	-0.00028	-0.00028
	(!A * C * !D * Y)	0.00015	0.00016	0.00016
	(!A * C * !D * Y)	0.00002	0.00002	0.00002
	(!A * C * !D * Y)	-0.00001	-0.00001	-0.00001
	(!A * C * !D * Y)	-0.00028	-0.00028	-0.00028
	(!A * !C * D * Y)	0.00015	0.00015	0.00015
	(!A * !C * D * Y)	0.00001	0.00002	0.00002
	(!A * !C * D * Y)	-0.00001	-0.00001	-0.00001
	(!A * !C * D * Y)	-0.00028	-0.00028	-0.00028

Passive power(pJ) for C rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7R	(B * D * Y)	-0.00000	0.00000	0.00000
	(B * D * Y)	-0.00007	-0.00007	-0.00007
	(B * D * Y)	0.00001	0.00001	0.00001
	(B * D * Y)	0.00027	0.00027	0.00027
	(B * !D * Y)	0.00000	0.00000	0.00000
	(B * !D * Y)	-0.00005	-0.00005	-0.00005
	(B * !D * Y)	0.00001	0.00001	0.00001
	(B * !D * Y)	0.00026	0.00026	0.00027
	(A * !B * D * Y)	0.00000	0.00000	0.00001
	(A * !B * D * Y)	-0.00007	-0.00007	-0.00007
	(A * !B * D * Y)	0.00001	0.00001	0.00001
	(A * !B * D * Y)	0.00027	0.00027	0.00027
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	-0.00005	-0.00005	-0.00005
	(A * !B * !D * Y)	0.00000	0.00001	0.00001
	(A * !B * !D * Y)	0.00026	0.00026	0.00027
	(!A * !B * D * Y)	-0.00015	-0.00013	-0.00011
	(!A * !B * D * Y)	-0.00002	-0.00002	-0.00002
	(!A * !B * D * Y)	0.00001	0.00001	0.00001
	(!A * !B * D * Y)	0.00026	0.00027	0.00029

Passive power(pJ) for C falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7R	(B * D * Y)	0.00000	0.00000	0.00000
	(B * D * Y)	0.00007	0.00007	0.00007
	(B * D * Y)	-0.00001	-0.00001	-0.00001
	(B * D * Y)	-0.00026	-0.00026	-0.00026
	(B * !D * Y)	-0.00000	0.00000	0.00000
	(B * !D * Y)	0.00005	0.00005	0.00006
	(B * !D * Y)	-0.00001	-0.00001	-0.00001
	(B * !D * Y)	-0.00026	-0.00026	-0.00026
	(A * !B * D * Y)	0.00000	0.00000	0.00000
	(A * !B * D * Y)	0.00007	0.00007	0.00007
	(A * !B * D * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * D * Y)	-0.00026	-0.00026	-0.00026
	(A * !B * !D * Y)	0.00000	0.00000	0.00000
	(A * !B * !D * Y)	0.00005	0.00005	0.00005
	(A * !B * !D * Y)	-0.00001	-0.00001	-0.00000
	(A * !B * !D * Y)	-0.00027	-0.00026	-0.00026
	(!A * !B * D * Y)	0.00015	0.00015	0.00015
	(!A * !B * D * Y)	0.00002	0.00002	0.00002
	(!A * !B * D * Y)	-0.00001	-0.00001	-0.00000
	(!A * !B * D * Y)	-0.00026	-0.00026	-0.00026

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7R	(C * Y)	-0.00000	0.00000	0.00000
	(C * Y)	-0.00004	-0.00004	-0.00004
	(C * Y)	0.00001	0.00001	0.00001
	(C * Y)	0.00047	0.00047	0.00047
	(B * !C * Y)	-0.00000	0.00000	0.00000
	(B * !C * Y)	-0.00004	-0.00004	-0.00004
	(B * !C * Y)	0.00001	0.00001	0.00001
	(B * !C * Y)	0.00046	0.00047	0.00047
	(A * !B * !C * Y)	-0.00000	0.00000	0.00000
	(A * !B * !C * Y)	-0.00004	-0.00004	-0.00004
	(A * !B * !C * Y)	0.00001	0.00001	0.00001
	(A * !B * !C * Y)	0.00047	0.00047	0.00047

Passive power(pJ) for D falling (conditional):

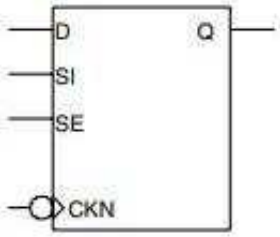
Cell Name	When	Power(pJ)		
		min	avg	max
OR4X6H7R	(C * Y)	0.00000	0.00000	0.00000
	(C * Y)	0.00004	0.00004	0.00004
	(C * Y)	-0.00001	-0.00001	-0.00001
	(C * Y)	-0.00047	-0.00047	-0.00047
	(B * !C * Y)	0.00000	0.00000	0.00000
	(B * !C * Y)	0.00004	0.00004	0.00005
	(B * !C * Y)	-0.00001	-0.00001	-0.00001
	(B * !C * Y)	-0.00047	-0.00047	-0.00046
	(A * !B * !C * Y)	0.00000	0.00000	0.00000
	(A * !B * !C * Y)	0.00004	0.00004	0.00004
	(A * !B * !C * Y)	-0.00001	-0.00001	-0.00001
	(A * !B * !C * Y)	-0.00047	-0.00047	-0.00046

SDFFNQX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFNQ cell is a negative-edge triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE).



Truth Table

INPUT				OUTPUT
CKN	D	SE	SI	Q
F	0	0	x	0
F	x	1	0	0
F	x	1	1	1
F	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFNQX1H7R	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CKN	D	SE	SI	Q
SDFFNQX1H7R	0.00093	0.00057	0.00172	0.00070	0.05782

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNQX1H7R	0.00000	0.81089	0.93787

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX1H7R	CKN->Q (FR)	(D * SE)	0.08924	0.25342	0.64634
	CKN->Q (FR)	(D * !SE * SI) + (!D * SE * !SI)	0.08924	0.25341	0.64635
	CKN->Q (FR)	(!SE * !SI)	0.08924	0.25341	0.64635
	CKN->Q (FR)	(!D * SI)	0.08924	0.25342	0.64637

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX1H7R	CKN->Q (FF)	(D * SE)	0.14063	0.27798	0.58194
	CKN->Q (FF)	(D * !SE * SI) + (!D * SE * !SI)	0.14064	0.27798	0.58201
	CKN->Q (FF)	(!SE * !SI)	0.14068	0.27802	0.58206
	CKN->Q (FF)	(!D * SI)	0.14068	0.27802	0.58206

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNQX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7R	**hold**	**CKN (F)**	-0.11495	-0.00955	0.10017
	setup	**CKN (F)**	-0.06806	0.04562	0.15861

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7R	**hold**	**CKN (F)**	-0.17919	-0.07729	0.00000
	setup	**CKN (F)**	0.01011	0.09425	0.21078

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7R	**hold**	**CKN (F)**	-0.08779	0.00272	0.10820
	setup	**CKN (F)**	0.04861	0.10752	0.16123

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7R	**hold**	**CKN (F)**	-0.12971	-0.02727	0.08028
	setup	**CKN (F)**	-0.00082	0.08095	0.18517

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7R	hold	CKN (F)	-0.11507	-0.01048	0.09873
	setup	CKN (F)	-0.06601	0.04744	0.16014

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX1H7R	hold	CKN (F)	-0.20761	-0.09639	-0.01831
	setup	CKN (F)	0.03107	0.11579	0.23720

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX1H7R	CKN	(D * SE)	0.00356	0.00369	0.00412
	CKN	(D * SE)	0.00005	0.00005	0.00006
	CKN	(D * SE)	-0.00006	-0.00004	0.00000
	CKN	(D * SE)	0.00305	0.00318	0.00356
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00353	0.00369	0.00412
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00005	0.00005	0.00010
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00006	-0.00004	-0.00000
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00305	0.00318	0.00357
	CKN	(!SE * !SI)	0.00353	0.00369	0.00412
	CKN	(!SE * !SI)	0.00005	0.00005	0.00010
	CKN	(!SE * !SI)	-0.00006	-0.00004	-0.00000
	CKN	(!SE * !SI)	0.00305	0.00318	0.00357
	CKN	(!D * SI)	0.00356	0.00369	0.00412
	CKN	(!D * SI)	0.00005	0.00005	0.00006
	CKN	(!D * SI)	-0.00006	-0.00004	0.00000
	CKN	(!D * SI)	0.00305	0.00318	0.00357

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX1H7R	CKN	(D * SE)	0.00410	0.00420	0.00452
	CKN	(D * SE)	-0.00005	-0.00003	-0.00002
	CKN	(D * SE)	0.00003	0.00006	0.00008
	CKN	(D * SE)	0.00342	0.00351	0.00385
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00410	0.00420	0.00452
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00005	-0.00003	-0.00002
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00003	0.00006	0.00008
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00342	0.00351	0.00385
	CKN	(!SE * !SI)	0.00410	0.00420	0.00452
	CKN	(!SE * !SI)	-0.00003	-0.00003	-0.00000
	CKN	(!SE * !SI)	0.00003	0.00006	0.00006
	CKN	(!SE * !SI)	0.00342	0.00352	0.00386
	CKN	(!D * SI)	0.00410	0.00420	0.00453
	CKN	(!D * SI)	-0.00005	-0.00003	-0.00000
	CKN	(!D * SI)	0.00003	0.00006	0.00006
	CKN	(!D * SI)	0.00341	0.00352	0.00386

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7R	**(D * SE * SI)**	0.00323	0.00333	0.00370
	(D * SE * SI)	-0.00000	0.00000	0.00001
	(D * SE * SI)	-0.00000	-0.00000	0.00000
	(D * SE * SI)	0.00385	0.00395	0.00432
	(D * SE * !SI)	0.00268	0.00277	0.00310
	(D * SE * !SI)	-0.00000	-0.00000	0.00000
	(D * SE * !SI)	-0.00000	0.00001	0.00002
	(D * SE * !SI)	0.00324	0.00334	0.00367
	(D * !SE * SI)	0.00323	0.00333	0.00370
	(D * !SE * SI)	-0.00000	0.00000	0.00001
	(D * !SE * SI)	-0.00001	-0.00000	0.00000
	(D * !SE * SI)	0.00385	0.00395	0.00432
	(D * !SE * !SI)	0.00323	0.00333	0.00370
	(D * !SE * !SI)	-0.00000	0.00000	0.00001
	(D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(D * !SE * !SI)	0.00385	0.00395	0.00432
	(!D * SE * SI)	0.00323	0.00333	0.00370
	(!D * SE * SI)	-0.00000	0.00000	0.00001
	(!D * SE * SI)	-0.00000	-0.00000	0.00000
	(!D * SE * SI)	0.00385	0.00395	0.00432
	(!D * SE * !SI)	0.00268	0.00277	0.00310
	(!D * SE * !SI)	-0.00000	-0.00000	0.00000
	(!D * SE * !SI)	-0.00000	0.00001	0.00002
	(!D * SE * !SI)	0.00324	0.00334	0.00367
	(!D * !SE * SI)	0.00268	0.00277	0.00310
	(!D * !SE * SI)	-0.00000	-0.00000	0.00000
	(!D * !SE * SI)	0.00001	0.00001	0.00002
	(!D * !SE * SI)	0.00324	0.00334	0.00367
	(!D * !SE * !SI)	0.00268	0.00277	0.00310
	(!D * !SE * !SI)	-0.00000	-0.00000	0.00000
	(!D * !SE * !SI)	0.00001	0.00001	0.00002
	(!D * !SE * !SI)	0.00324	0.00334	0.00367

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7R	**(D * SE * SI)**	0.00218	0.00227	0.00262
	(D * SE * SI)	0.00001	0.00001	0.00002
	(D * SE * SI)	0.00000	0.00000	0.00000
	(D * SE * SI)	0.00159	0.00169	0.00203
	(D * SE * !SI)	0.00230	0.00240	0.00274
	(D * SE * !SI)	0.00000	0.00000	0.00000
	(D * SE * !SI)	0.00001	0.00002	0.00002
	(D * SE * !SI)	0.00169	0.00178	0.00213
	(D * !SE * SI)	0.00218	0.00227	0.00262
	(D * !SE * SI)	0.00001	0.00001	0.00002
	(D * !SE * SI)	0.00000	0.00000	0.00001
	(D * !SE * SI)	0.00159	0.00169	0.00203
	(D * !SE * !SI)	0.00218	0.00227	0.00262
	(D * !SE * !SI)	0.00001	0.00001	0.00002
	(D * !SE * !SI)	0.00000	0.00000	0.00001
	(D * !SE * !SI)	0.00159	0.00169	0.00203
	(!D * SE * SI)	0.00218	0.00227	0.00262
	(!D * SE * SI)	0.00001	0.00001	0.00002
	(!D * SE * SI)	0.00000	0.00000	0.00000
	(!D * SE * SI)	0.00159	0.00169	0.00203
	(!D * SE * !SI)	0.00230	0.00240	0.00274
	(!D * SE * !SI)	0.00000	0.00000	0.00000
	(!D * SE * !SI)	0.00001	0.00002	0.00002
	(!D * SE * !SI)	0.00169	0.00178	0.00213
	(!D * !SE * SI)	0.00230	0.00240	0.00274
	(!D * !SE * SI)	0.00000	0.00000	0.00000
	(!D * !SE * SI)	0.00001	0.00002	0.00002
	(!D * !SE * SI)	0.00168	0.00178	0.00213
	(!D * !SE * !SI)	0.00230	0.00240	0.00274
	(!D * !SE * !SI)	0.00000	0.00000	0.00000
	(!D * !SE * !SI)	0.00001	0.00002	0.00002
	(!D * !SE * !SI)	0.00168	0.00178	0.00213

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7R	**(CKN * SE * SI)**	-0.00008	-0.00008	-0.00007
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * SI)	0.00001	0.00001	0.00001
	(CKN * SE * SI)	0.00024	0.00024	0.00025
	(CKN * SE * !SI)	-0.00008	-0.00008	-0.00007
	(CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * !SI)	0.00001	0.00001	0.00001
	(CKN * SE * !SI)	0.00024	0.00024	0.00024
	(CKN * !SE * SI)	0.00159	0.00163	0.00180
	(CKN * !SE * SI)	0.00011	0.00011	0.00011
	(CKN * !SE * SI)	-0.00011	-0.00010	-0.00010
	(CKN * !SE * SI)	0.00237	0.00242	0.00258
	(CKN * !SE * !SI)	0.00159	0.00163	0.00180
	(CKN * !SE * !SI)	0.00011	0.00011	0.00011
	(CKN * !SE * !SI)	-0.00010	-0.00010	-0.00010
	(CKN * !SE * !SI)	0.00238	0.00242	0.00259
	(!CKN * SE * SI)	-0.00008	-0.00008	-0.00007
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * SI)	0.00001	0.00001	0.00001
	(!CKN * SE * SI)	0.00024	0.00024	0.00025
	(!CKN * SE * !SI)	-0.00008	-0.00008	-0.00007
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	0.00024	0.00024	0.00024
	(!CKN * !SE * SI)	0.00028	0.00033	0.00050
	(!CKN * !SE * SI)	0.00011	0.00011	0.00011
	(!CKN * !SE * SI)	-0.00010	-0.00010	-0.00009
	(!CKN * !SE * SI)	0.00112	0.00116	0.00134
	(!CKN * !SE * !SI)	0.00028	0.00033	0.00050
	(!CKN * !SE * !SI)	0.00011	0.00011	0.00011
	(!CKN * !SE * !SI)	-0.00010	-0.00010	-0.00009
	(!CKN * !SE * !SI)	0.00112	0.00116	0.00134

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7R	**(CKN * SE * SI)**	0.00009	0.00009	0.00009
	(CKN * SE * SI)	0.00001	0.00001	0.00001
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * SI)	-0.00024	-0.00023	-0.00023
	(CKN * SE * !SI)	0.00008	0.00009	0.00009
	(CKN * SE * !SI)	0.00001	0.00001	0.00001
	(CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * !SI)	-0.00024	-0.00023	-0.00023
	(CKN * !SE * SI)	0.00184	0.00189	0.00207
	(CKN * !SE * SI)	-0.00011	-0.00011	-0.00011
	(CKN * !SE * SI)	0.00010	0.00010	0.00011
	(CKN * !SE * SI)	0.00105	0.00110	0.00129
	(CKN * !SE * !SI)	0.00184	0.00189	0.00207
	(CKN * !SE * !SI)	-0.00011	-0.00011	-0.00011
	(CKN * !SE * !SI)	0.00010	0.00010	0.00010
	(CKN * !SE * !SI)	0.00105	0.00110	0.00128
	(!CKN * SE * SI)	0.00009	0.00009	0.00009
	(!CKN * SE * SI)	0.00001	0.00001	0.00001
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * SI)	-0.00024	-0.00023	-0.00023
	(!CKN * SE * !SI)	0.00008	0.00009	0.00009
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	-0.00024	-0.00023	-0.00023
	(!CKN * !SE * SI)	0.00095	0.00100	0.00119
	(!CKN * !SE * SI)	-0.00011	-0.00011	-0.00011
	(!CKN * !SE * SI)	0.00009	0.00010	0.00010
	(!CKN * !SE * SI)	0.00011	0.00016	0.00035
	(!CKN * !SE * !SI)	0.00095	0.00100	0.00119
	(!CKN * !SE * !SI)	-0.00011	-0.00011	-0.00011
	(!CKN * !SE * !SI)	0.00009	0.00010	0.00010
	(!CKN * !SE * !SI)	0.00011	0.00016	0.00035

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7R	**(CKN * D * SI)**	-0.00012	-0.00000	0.00041
	(CKN * D * SI)	0.00002	0.00002	0.00002
	(CKN * D * SI)	-0.00002	-0.00002	-0.00000
	(CKN * D * SI)	0.00091	0.00103	0.00144
	(CKN * D * !SI)	0.00191	0.00202	0.00240
	(CKN * D * !SI)	-0.00006	-0.00006	-0.00006
	(CKN * D * !SI)	0.00006	0.00007	0.00007
	(CKN * D * !SI)	0.00259	0.00270	0.00308
	(CKN * !D * SI)	0.00118	0.00138	0.00210
	(CKN * !D * SI)	0.00010	0.00011	0.00011
	(CKN * !D * SI)	-0.00011	-0.00010	-0.00009
	(CKN * !D * SI)	0.00256	0.00276	0.00348
	(CKN * !D * !SI)	-0.00003	0.00009	0.00051
	(CKN * !D * !SI)	0.00002	0.00003	0.00004
	(CKN * !D * !SI)	-0.00002	-0.00002	-0.00002
	(CKN * !D * !SI)	0.00100	0.00112	0.00154
	(!CKN * D * SI)	-0.00012	-0.00000	0.00041
	(!CKN * D * SI)	0.00002	0.00002	0.00002
	(!CKN * D * SI)	-0.00002	-0.00001	-0.00000
	(!CKN * D * SI)	0.00091	0.00102	0.00144
	(!CKN * D * !SI)	0.00102	0.00113	0.00150
	(!CKN * D * !SI)	-0.00006	-0.00006	-0.00006
	(!CKN * D * !SI)	0.00005	0.00006	0.00007
	(!CKN * D * !SI)	0.00165	0.00176	0.00212
	(!CKN * !D * SI)	-0.00014	0.00007	0.00085
	(!CKN * !D * SI)	0.00010	0.00010	0.00010
	(!CKN * !D * SI)	-0.00009	-0.00009	-0.00008
	(!CKN * !D * SI)	0.00129	0.00150	0.00228
	(!CKN * !D * !SI)	-0.00003	0.00009	0.00051
	(!CKN * !D * !SI)	0.00002	0.00002	0.00003
	(!CKN * !D * !SI)	-0.00002	-0.00002	-0.00001
	(!CKN * !D * !SI)	0.00100	0.00112	0.00154

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7R	**(CKN * D * SI)**	0.00096	0.00109	0.00155
	(CKN * D * SI)	-0.00002	-0.00002	-0.00001
	(CKN * D * SI)	0.00000	0.00002	0.00002
	(CKN * D * SI)	-0.00007	0.00006	0.00052
	(CKN * D * !SI)	0.00266	0.00279	0.00325
	(CKN * D * !SI)	0.00006	0.00006	0.00008
	(CKN * D * !SI)	-0.00007	-0.00007	-0.00006
	(CKN * D * !SI)	0.00199	0.00212	0.00258
	(CKN * !D * SI)	0.00234	0.00257	0.00335
	(CKN * !D * SI)	-0.00011	-0.00010	-0.00010
	(CKN * !D * SI)	0.00010	0.00011	0.00011
	(CKN * !D * SI)	0.00096	0.00119	0.00197
	(CKN * !D * !SI)	0.00085	0.00098	0.00144
	(CKN * !D * !SI)	-0.00003	-0.00002	-0.00002
	(CKN * !D * !SI)	0.00002	0.00002	0.00003
	(CKN * !D * !SI)	-0.00018	-0.00005	0.00040
	(!CKN * D * SI)	0.00095	0.00109	0.00154
	(!CKN * D * SI)	-0.00002	-0.00002	-0.00002
	(!CKN * D * SI)	0.00000	0.00001	0.00002
	(!CKN * D * SI)	-0.00007	0.00006	0.00052
	(!CKN * D * !SI)	0.00137	0.00150	0.00194
	(!CKN * D * !SI)	0.00006	0.00006	0.00007
	(!CKN * D * !SI)	-0.00006	-0.00005	-0.00004
	(!CKN * D * !SI)	0.00074	0.00087	0.00132
	(!CKN * !D * SI)	0.00144	0.00168	0.00252
	(!CKN * !D * SI)	-0.00010	-0.00010	-0.00010
	(!CKN * !D * SI)	0.00009	0.00009	0.00010
	(!CKN * !D * SI)	0.00002	0.00026	0.00109
	(!CKN * !D * !SI)	0.00085	0.00098	0.00144
	(!CKN * !D * !SI)	-0.00002	-0.00002	-0.00001
	(!CKN * !D * !SI)	0.00002	0.00002	0.00002
	(!CKN * !D * !SI)	-0.00018	-0.00005	0.00041

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX1H7R	**(CKN * D * SE)**	0.00131	0.00135	0.00149
	(CKN * D * SE)	0.00010	0.00010	0.00010
	(CKN * D * SE)	-0.00011	-0.00010	-0.00010
	(CKN * D * SE)	0.00207	0.00212	0.00226
	(CKN * D * !SE)	-0.00010	-0.00009	-0.00009
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * D * !SE)	0.00000	0.00001	0.00001
	(CKN * D * !SE)	0.00022	0.00023	0.00024
	(CKN * !D * SE)	0.00131	0.00135	0.00149
	(CKN * !D * SE)	0.00010	0.00010	0.00010
	(CKN * !D * SE)	-0.00010	-0.00010	-0.00010
	(CKN * !D * SE)	0.00208	0.00212	0.00226
	(CKN * !D * !SE)	-0.00013	-0.00013	-0.00012
	(CKN * !D * !SE)	-0.00001	-0.00001	-0.00000
	(CKN * !D * !SE)	0.00001	0.00001	0.00001
	(CKN * !D * !SE)	0.00019	0.00019	0.00020
	(!CKN * D * SE)	0.00000	0.00004	0.00019
	(!CKN * D * SE)	0.00010	0.00010	0.00010
	(!CKN * D * SE)	-0.00009	-0.00009	-0.00009
	(!CKN * D * SE)	0.00082	0.00085	0.00100
	(!CKN * D * !SE)	-0.00010	-0.00009	-0.00009
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	0.00001	0.00001	0.00001
	(!CKN * D * !SE)	0.00022	0.00022	0.00023
	(!CKN * !D * SE)	0.00000	0.00004	0.00019
	(!CKN * !D * SE)	0.00010	0.00010	0.00010
	(!CKN * !D * SE)	-0.00009	-0.00009	-0.00009
	(!CKN * !D * SE)	0.00082	0.00085	0.00100
	(!CKN * !D * !SE)	-0.00013	-0.00013	-0.00012
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	0.00019	0.00019	0.00019

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

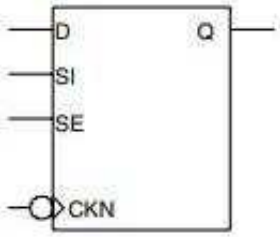
SDFFNQX1H7R	**(CKN * D * SE)**	0.00210	0.00214	0.00230
	(CKN * D * SE)	-0.00010	-0.00010	-0.00010
	(CKN * D * SE)	0.00010	0.00010	0.00011
	(CKN * D * SE)	0.00133	0.00138	0.00154
	(CKN * D * !SE)	0.00010	0.00010	0.00010
	(CKN * D * !SE)	0.00001	0.00001	0.00001
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00000
	(CKN * D * !SE)	-0.00022	-0.00022	-0.00021
	(CKN * !D * SE)	0.00210	0.00214	0.00230
	(CKN * !D * SE)	-0.00010	-0.00010	-0.00010
	(CKN * !D * SE)	0.00010	0.00010	0.00010
	(CKN * !D * SE)	0.00134	0.00138	0.00154
	(CKN * !D * !SE)	0.00014	0.00014	0.00014
	(CKN * !D * !SE)	0.00000	0.00001	0.00001
	(CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * !D * !SE)	-0.00019	-0.00018	-0.00017
	(!CKN * D * SE)	0.00120	0.00124	0.00140
	(!CKN * D * SE)	-0.00010	-0.00010	-0.00009
	(!CKN * D * SE)	0.00009	0.00009	0.00009
	(!CKN * D * SE)	0.00038	0.00043	0.00059
	(!CKN * D * !SE)	0.00010	0.00010	0.00010
	(!CKN * D * !SE)	0.00001	0.00001	0.00001
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	-0.00022	-0.00022	-0.00021
	(!CKN * !D * SE)	0.00120	0.00124	0.00140
	(!CKN * !D * SE)	-0.00010	-0.00010	-0.00009
	(!CKN * !D * SE)	0.00009	0.00009	0.00009
	(!CKN * !D * SE)	0.00038	0.00043	0.00059
	(!CKN * !D * !SE)	0.00013	0.00014	0.00014
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	-0.00018	-0.00018	-0.00018

SDFFNQX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFNQ cell is a negative-edge triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE).



Truth Table

INPUT				OUTPUT
CKN	D	SE	SI	Q
F	0	0	x	0
F	x	1	0	0
F	x	1	1	1
F	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFNQX2H7R	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CKN	D	SE	SI	Q
SDFFNQX2H7R	0.00093	0.00058	0.00175	0.00069	0.08547

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNQX2H7R	0.00000	0.98714	1.42212

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX2H7R	CKN->Q (FR)	(D * SE)	0.09517	0.26331	0.66014
	CKN->Q (FR)	(D * !SE * SI) + (!D * SE * !SI)	0.09517	0.26332	0.66020
	CKN->Q (FR)	(!SE * !SI)	0.09517	0.26333	0.66082
	CKN->Q (FR)	(!D * SI)	0.09517	0.26331	0.66014

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX2H7R	CKN->Q (FF)	(D * SE)	0.15160	0.29311	0.59785
	CKN->Q (FF)	(D * !SE * SI) + (!D * SE * !SI)	0.15160	0.29311	0.59780
	CKN->Q (FF)	(!SE * !SI)	0.15162	0.29314	0.59784
	CKN->Q (FF)	(!D * SI)	0.15163	0.29314	0.59783

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNQX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7R	**hold**	**CKN (F)**	-0.11069	-0.00722	0.10190
	setup	**CKN (F)**	-0.07427	0.04154	0.15307

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7R	**hold**	**CKN (F)**	-0.17907	-0.07462	0.00493
	setup	**CKN (F)**	0.00572	0.09111	0.20782

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7R	**hold**	**CKN (F)**	-0.09162	0.00182	0.10767
	setup	**CKN (F)**	0.04560	0.10752	0.16183

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7R	**hold**	**CKN (F)**	-0.12692	-0.02513	0.08134
	setup	**CKN (F)**	-0.00522	0.07748	0.18274

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7R	hold	CKN (F)	-0.11491	-0.01115	0.09593
	setup	CKN (F)	-0.07186	0.04584	0.15972

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX2H7R	hold	CKN (F)	-0.20718	-0.09618	-0.01873
	setup	CKN (F)	0.02883	0.11543	0.23557

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX2H7R	CKN	(D * SE)	0.00384	0.00398	0.00438
	CKN	(D * SE)	0.00003	0.00004	0.00004
	CKN	(D * SE)	-0.00005	-0.00003	-0.00002
	CKN	(D * SE)	0.00331	0.00345	0.00385
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00384	0.00398	0.00438
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00003	0.00004	0.00004
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00003	-0.00003	-0.00002
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00331	0.00345	0.00385
	CKN	(!SE * !SI)	0.00384	0.00398	0.00443
	CKN	(!SE * !SI)	0.00003	0.00004	0.00004
	CKN	(!SE * !SI)	-0.00003	-0.00003	-0.00002
	CKN	(!SE * !SI)	0.00331	0.00345	0.00385
	CKN	(!D * SI)	0.00384	0.00398	0.00438
	CKN	(!D * SI)	0.00003	0.00004	0.00004
	CKN	(!D * SI)	-0.00003	-0.00003	-0.00001
	CKN	(!D * SI)	0.00331	0.00345	0.00385

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX2H7R	CKN	(D * SE)	0.00455	0.00466	0.00498
	CKN	(D * SE)	-0.00004	-0.00002	-0.00001
	CKN	(D * SE)	0.00003	0.00005	0.00007
	CKN	(D * SE)	0.00388	0.00400	0.00437
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00455	0.00466	0.00498
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00004	-0.00001	-0.00001
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00003	0.00005	0.00008
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00388	0.00400	0.00435
	CKN	(!SE * !SI)	0.00455	0.00465	0.00499
	CKN	(!SE * !SI)	-0.00004	-0.00001	0.00012
	CKN	(!SE * !SI)	0.00004	0.00005	0.00007
	CKN	(!SE * !SI)	0.00388	0.00400	0.00435
	CKN	(!D * SI)	0.00455	0.00465	0.00499
	CKN	(!D * SI)	-0.00004	-0.00001	0.00012
	CKN	(!D * SI)	0.00001	0.00005	0.00008
	CKN	(!D * SI)	0.00390	0.00400	0.00436

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7R	**(D * SE * SI)**	0.00327	0.00337	0.00374
	(D * SE * SI)	-0.00000	0.00000	0.00000
	(D * SE * SI)	-0.00001	-0.00000	0.00000
	(D * SE * SI)	0.00387	0.00398	0.00434
	(D * SE * !SI)	0.00272	0.00282	0.00314
	(D * SE * !SI)	-0.00000	-0.00000	0.00000
	(D * SE * !SI)	0.00000	0.00001	0.00002
	(D * SE * !SI)	0.00329	0.00339	0.00372
	(D * !SE * SI)	0.00327	0.00337	0.00374
	(D * !SE * SI)	-0.00000	0.00000	0.00000
	(D * !SE * SI)	-0.00001	-0.00000	0.00000
	(D * !SE * SI)	0.00388	0.00398	0.00434
	(D * !SE * !SI)	0.00327	0.00337	0.00374
	(D * !SE * !SI)	-0.00000	0.00000	0.00000
	(D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(D * !SE * !SI)	0.00388	0.00398	0.00434
	(!D * SE * SI)	0.00327	0.00337	0.00374
	(!D * SE * SI)	-0.00000	0.00000	0.00000
	(!D * SE * SI)	-0.00001	-0.00000	0.00000
	(!D * SE * SI)	0.00387	0.00398	0.00434
	(!D * SE * !SI)	0.00272	0.00282	0.00314
	(!D * SE * !SI)	-0.00000	-0.00000	0.00000
	(!D * SE * !SI)	0.00000	0.00001	0.00002
	(!D * SE * !SI)	0.00329	0.00339	0.00372
	(!D * !SE * SI)	0.00272	0.00282	0.00315
	(!D * !SE * SI)	-0.00000	-0.00000	0.00000
	(!D * !SE * SI)	-0.00000	0.00001	0.00001
	(!D * !SE * SI)	0.00330	0.00339	0.00372
	(!D * !SE * !SI)	0.00272	0.00282	0.00315
	(!D * !SE * !SI)	-0.00000	-0.00000	0.00000
	(!D * !SE * !SI)	-0.00000	0.00001	0.00001
	(!D * !SE * !SI)	0.00329	0.00339	0.00372

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7R	**(D * SE * SI)**	0.00221	0.00230	0.00264
	(D * SE * SI)	0.00000	0.00001	0.00002
	(D * SE * SI)	0.00000	0.00000	0.00001
	(D * SE * SI)	0.00162	0.00172	0.00206
	(D * SE * !SI)	0.00236	0.00246	0.00279
	(D * SE * !SI)	0.00000	0.00000	0.00000
	(D * SE * !SI)	0.00001	0.00002	0.00002
	(D * SE * !SI)	0.00175	0.00184	0.00218
	(D * !SE * SI)	0.00220	0.00230	0.00264
	(D * !SE * SI)	0.00000	0.00001	0.00002
	(D * !SE * SI)	0.00000	0.00000	0.00001
	(D * !SE * SI)	0.00162	0.00172	0.00206
	(D * !SE * !SI)	0.00220	0.00230	0.00264
	(D * !SE * !SI)	0.00000	0.00001	0.00002
	(D * !SE * !SI)	0.00000	0.00000	0.00001
	(D * !SE * !SI)	0.00162	0.00172	0.00206
	(!D * SE * SI)	0.00221	0.00230	0.00264
	(!D * SE * SI)	0.00000	0.00001	0.00002
	(!D * SE * SI)	0.00000	0.00000	0.00001
	(!D * SE * SI)	0.00162	0.00172	0.00206
	(!D * SE * !SI)	0.00236	0.00245	0.00279
	(!D * SE * !SI)	0.00000	0.00000	0.00000
	(!D * SE * !SI)	0.00001	0.00002	0.00002
	(!D * SE * !SI)	0.00175	0.00184	0.00218
	(!D * !SE * SI)	0.00236	0.00246	0.00279
	(!D * !SE * SI)	0.00000	0.00000	0.00000
	(!D * !SE * SI)	0.00001	0.00002	0.00002
	(!D * !SE * SI)	0.00175	0.00184	0.00218
	(!D * !SE * !SI)	0.00236	0.00246	0.00279
	(!D * !SE * !SI)	0.00000	0.00000	0.00000
	(!D * !SE * !SI)	0.00001	0.00002	0.00002
	(!D * !SE * !SI)	0.00175	0.00184	0.00218

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7R	**(CKN * SE * SI)**	-0.00009	-0.00008	-0.00007
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * SI)	0.00001	0.00001	0.00001
	(CKN * SE * SI)	0.00024	0.00024	0.00025
	(CKN * SE * !SI)	-0.00009	-0.00008	-0.00007
	(CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * !SI)	0.00001	0.00001	0.00001
	(CKN * SE * !SI)	0.00025	0.00025	0.00025
	(CKN * !SE * SI)	0.00161	0.00166	0.00183
	(CKN * !SE * SI)	0.00011	0.00011	0.00011
	(CKN * !SE * SI)	-0.00011	-0.00011	-0.00010
	(CKN * !SE * SI)	0.00241	0.00245	0.00262
	(CKN * !SE * !SI)	0.00161	0.00166	0.00183
	(CKN * !SE * !SI)	0.00011	0.00011	0.00011
	(CKN * !SE * !SI)	-0.00011	-0.00011	-0.00010
	(CKN * !SE * !SI)	0.00241	0.00245	0.00262
	(!CKN * SE * SI)	-0.00009	-0.00008	-0.00007
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * SI)	0.00001	0.00001	0.00001
	(!CKN * SE * SI)	0.00024	0.00025	0.00025
	(!CKN * SE * !SI)	-0.00009	-0.00008	-0.00007
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	0.00025	0.00025	0.00025
	(!CKN * !SE * SI)	0.00025	0.00030	0.00048
	(!CKN * !SE * SI)	0.00010	0.00011	0.00011
	(!CKN * !SE * SI)	-0.00010	-0.00010	-0.00010
	(!CKN * !SE * SI)	0.00111	0.00115	0.00134
	(!CKN * !SE * !SI)	0.00025	0.00030	0.00048
	(!CKN * !SE * !SI)	0.00011	0.00011	0.00011
	(!CKN * !SE * !SI)	-0.00010	-0.00010	-0.00010
	(!CKN * !SE * !SI)	0.00111	0.00116	0.00134

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7R	**(CKN * SE * SI)**	0.00009	0.00009	0.00009
	(CKN * SE * SI)	0.00001	0.00001	0.00001
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * SI)	-0.00024	-0.00024	-0.00023
	(CKN * SE * !SI)	0.00009	0.00009	0.00010
	(CKN * SE * !SI)	0.00001	0.00001	0.00001
	(CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * !SI)	-0.00024	-0.00024	-0.00023
	(CKN * !SE * SI)	0.00188	0.00193	0.00212
	(CKN * !SE * SI)	-0.00011	-0.00011	-0.00011
	(CKN * !SE * SI)	0.00010	0.00011	0.00011
	(CKN * !SE * SI)	0.00108	0.00113	0.00133
	(CKN * !SE * !SI)	0.00188	0.00193	0.00212
	(CKN * !SE * !SI)	-0.00011	-0.00011	-0.00011
	(CKN * !SE * !SI)	0.00010	0.00011	0.00011
	(CKN * !SE * !SI)	0.00108	0.00113	0.00132
	(!CKN * SE * SI)	0.00009	0.00009	0.00009
	(!CKN * SE * SI)	0.00001	0.00001	0.00001
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * SI)	-0.00024	-0.00024	-0.00023
	(!CKN * SE * !SI)	0.00009	0.00009	0.00010
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	-0.00024	-0.00024	-0.00023
	(!CKN * !SE * SI)	0.00101	0.00106	0.00126
	(!CKN * !SE * SI)	-0.00011	-0.00011	-0.00010
	(!CKN * !SE * SI)	0.00010	0.00010	0.00010
	(!CKN * !SE * SI)	0.00014	0.00020	0.00040
	(!CKN * !SE * !SI)	0.00101	0.00106	0.00126
	(!CKN * !SE * !SI)	-0.00011	-0.00011	-0.00011
	(!CKN * !SE * !SI)	0.00010	0.00010	0.00010
	(!CKN * !SE * !SI)	0.00014	0.00019	0.00040

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7R	**(CKN * D * SI)**	-0.00012	-0.00000	0.00041
	(CKN * D * SI)	0.00002	0.00002	0.00002
	(CKN * D * SI)	-0.00002	-0.00002	-0.00001
	(CKN * D * SI)	0.00092	0.00103	0.00145
	(CKN * D * !SI)	0.00195	0.00205	0.00243
	(CKN * D * !SI)	-0.00007	-0.00006	-0.00006
	(CKN * D * !SI)	0.00006	0.00007	0.00009
	(CKN * D * !SI)	0.00265	0.00275	0.00313
	(CKN * !D * SI)	0.00119	0.00139	0.00212
	(CKN * !D * SI)	0.00010	0.00010	0.00011
	(CKN * !D * SI)	-0.00012	-0.00010	-0.00009
	(CKN * !D * SI)	0.00258	0.00278	0.00351
	(CKN * !D * !SI)	-0.00003	0.00009	0.00051
	(CKN * !D * !SI)	0.00000	0.00002	0.00002
	(CKN * !D * !SI)	-0.00002	-0.00002	-0.00002
	(CKN * !D * !SI)	0.00102	0.00113	0.00155
	(!CKN * D * SI)	-0.00012	-0.00000	0.00041
	(!CKN * D * SI)	0.00002	0.00002	0.00002
	(!CKN * D * SI)	-0.00002	-0.00002	-0.00000
	(!CKN * D * SI)	0.00092	0.00103	0.00145
	(!CKN * D * !SI)	0.00107	0.00118	0.00155
	(!CKN * D * !SI)	-0.00007	-0.00006	-0.00006
	(!CKN * D * !SI)	0.00004	0.00006	0.00006
	(!CKN * D * !SI)	0.00170	0.00182	0.00218
	(!CKN * !D * SI)	-0.00018	0.00003	0.00081
	(!CKN * !D * SI)	0.00010	0.00010	0.00011
	(!CKN * !D * SI)	-0.00010	-0.00009	-0.00008
	(!CKN * !D * SI)	0.00127	0.00149	0.00227
	(!CKN * !D * !SI)	-0.00004	0.00009	0.00051
	(!CKN * !D * !SI)	0.00000	0.00002	0.00002
	(!CKN * !D * !SI)	-0.00002	-0.00002	-0.00002
	(!CKN * !D * !SI)	0.00101	0.00113	0.00155

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7R	**(CKN * D * SI)**	0.00096	0.00110	0.00155
	(CKN * D * SI)	-0.00002	-0.00002	-0.00002
	(CKN * D * SI)	0.00001	0.00002	0.00002
	(CKN * D * SI)	-0.00007	0.00006	0.00052
	(CKN * D * !SI)	0.00269	0.00283	0.00329
	(CKN * D * !SI)	0.00006	0.00006	0.00007
	(CKN * D * !SI)	-0.00008	-0.00007	-0.00006
	(CKN * D * !SI)	0.00199	0.00214	0.00259
	(CKN * !D * SI)	0.00239	0.00261	0.00340
	(CKN * !D * SI)	-0.00011	-0.00010	-0.00010
	(CKN * !D * SI)	0.00009	0.00011	0.00012
	(CKN * !D * SI)	0.00100	0.00122	0.00201
	(CKN * !D * !SI)	0.00086	0.00099	0.00145
	(CKN * !D * !SI)	-0.00002	-0.00002	-0.00000
	(CKN * !D * !SI)	0.00002	0.00002	0.00003
	(CKN * !D * !SI)	-0.00019	-0.00006	0.00040
	(!CKN * D * SI)	0.00096	0.00110	0.00155
	(!CKN * D * SI)	-0.00002	-0.00002	-0.00001
	(!CKN * D * SI)	0.00000	0.00002	0.00002
	(!CKN * D * SI)	-0.00007	0.00006	0.00051
	(!CKN * D * !SI)	0.00135	0.00148	0.00192
	(!CKN * D * !SI)	0.00006	0.00006	0.00007
	(!CKN * D * !SI)	-0.00006	-0.00006	-0.00004
	(!CKN * D * !SI)	0.00072	0.00085	0.00129
	(!CKN * !D * SI)	0.00150	0.00174	0.00258
	(!CKN * !D * SI)	-0.00010	-0.00010	-0.00010
	(!CKN * !D * SI)	0.00010	0.00010	0.00010
	(!CKN * !D * SI)	0.00005	0.00029	0.00113
	(!CKN * !D * !SI)	0.00086	0.00099	0.00145
	(!CKN * !D * !SI)	-0.00002	-0.00002	-0.00000
	(!CKN * !D * !SI)	0.00002	0.00002	0.00002
	(!CKN * !D * !SI)	-0.00019	-0.00006	0.00040

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX2H7R	**(CKN * D * SE)**	0.00133	0.00136	0.00151
	(CKN * D * SE)	0.00010	0.00010	0.00010
	(CKN * D * SE)	-0.00010	-0.00010	-0.00010
	(CKN * D * SE)	0.00208	0.00212	0.00226
	(CKN * D * !SE)	-0.00010	-0.00009	-0.00009
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * D * !SE)	0.00000	0.00001	0.00001
	(CKN * D * !SE)	0.00022	0.00022	0.00023
	(CKN * !D * SE)	0.00133	0.00136	0.00151
	(CKN * !D * SE)	0.00010	0.00010	0.00010
	(CKN * !D * SE)	-0.00010	-0.00010	-0.00010
	(CKN * !D * SE)	0.00208	0.00212	0.00226
	(CKN * !D * !SE)	-0.00013	-0.00013	-0.00012
	(CKN * !D * !SE)	-0.00001	-0.00001	-0.00000
	(CKN * !D * !SE)	0.00001	0.00001	0.00001
	(CKN * !D * !SE)	0.00018	0.00018	0.00019
	(!CKN * D * SE)	-0.00003	0.00000	0.00015
	(!CKN * D * SE)	0.00010	0.00010	0.00010
	(!CKN * D * SE)	-0.00010	-0.00009	-0.00008
	(!CKN * D * SE)	0.00078	0.00082	0.00096
	(!CKN * D * !SE)	-0.00010	-0.00009	-0.00008
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	0.00001	0.00001	0.00001
	(!CKN * D * !SE)	0.00022	0.00022	0.00022
	(!CKN * !D * SE)	-0.00003	0.00000	0.00015
	(!CKN * !D * SE)	0.00010	0.00010	0.00010
	(!CKN * !D * SE)	-0.00010	-0.00010	-0.00009
	(!CKN * !D * SE)	0.00078	0.00082	0.00096
	(!CKN * !D * !SE)	-0.00013	-0.00013	-0.00012
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	0.00018	0.00018	0.00018

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

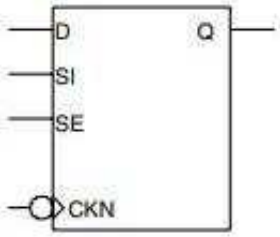
SDFFNQX2H7R	**(CKN * D * SE)**	0.00214	0.00218	0.00234
	(CKN * D * SE)	-0.00010	-0.00010	-0.00010
	(CKN * D * SE)	0.00010	0.00010	0.00010
	(CKN * D * SE)	0.00138	0.00143	0.00159
	(CKN * D * !SE)	0.00010	0.00010	0.00010
	(CKN * D * !SE)	0.00001	0.00001	0.00001
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00000
	(CKN * D * !SE)	-0.00021	-0.00021	-0.00020
	(CKN * !D * SE)	0.00214	0.00218	0.00234
	(CKN * !D * SE)	-0.00010	-0.00010	-0.00010
	(CKN * !D * SE)	0.00010	0.00010	0.00010
	(CKN * !D * SE)	0.00138	0.00143	0.00159
	(CKN * !D * !SE)	0.00013	0.00014	0.00014
	(CKN * !D * !SE)	0.00000	0.00001	0.00001
	(CKN * !D * !SE)	-0.00001	-0.00001	-0.00000
	(CKN * !D * !SE)	-0.00018	-0.00017	-0.00017
	(!CKN * D * SE)	0.00125	0.00129	0.00145
	(!CKN * D * SE)	-0.00010	-0.00010	-0.00010
	(!CKN * D * SE)	0.00008	0.00009	0.00010
	(!CKN * D * SE)	0.00044	0.00048	0.00064
	(!CKN * D * !SE)	0.00010	0.00010	0.00010
	(!CKN * D * !SE)	0.00001	0.00001	0.00001
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	-0.00022	-0.00021	-0.00021
	(!CKN * !D * SE)	0.00125	0.00129	0.00145
	(!CKN * !D * SE)	-0.00010	-0.00010	-0.00010
	(!CKN * !D * SE)	0.00009	0.00010	0.00011
	(!CKN * !D * SE)	0.00044	0.00048	0.00064
	(!CKN * !D * !SE)	0.00013	0.00014	0.00014
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	-0.00018	-0.00017	-0.00016

SDFFNQX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFNQ cell is a negative-edge triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE).



Truth Table

INPUT				OUTPUT
CKN	D	SE	SI	Q
F	0	0	x	0
F	x	1	0	0
F	x	1	1	1
F	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFNQX3H7R	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CKN	D	SE	SI	Q
SDFFNQX3H7R	0.00092	0.00057	0.00175	0.00064	0.12093

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNQX3H7R	0.00000	1.08132	1.55431

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX3H7R	CKN->Q (FR)	(D * SE)	0.09248	0.26028	0.65354
	CKN->Q (FR)	(D * !SE * SI) + (!D * SE * !SI)	0.09248	0.26027	0.65353
	CKN->Q (FR)	(!SE * !SI)	0.09248	0.26027	0.65353
	CKN->Q (FR)	(!D * SI)	0.09248	0.26028	0.65354

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNQX3H7R	CKN->Q (FF)	(D * SE)	0.14482	0.28660	0.58909
	CKN->Q (FF)	(D * !SE * SI) + (!D * SE * !SI)	0.14482	0.28660	0.58902
	CKN->Q (FF)	(!SE * !SI)	0.14483	0.28662	0.58893
	CKN->Q (FF)	(!D * SI)	0.14483	0.28662	0.58893

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNQX3H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7R	**hold**	**CKN (F)**	-0.11209	-0.01170	0.09358
	setup	**CKN (F)**	-0.06908	0.04247	0.15268

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7R	**hold**	**CKN (F)**	-0.17805	-0.07594	0.00362
	setup	**CKN (F)**	0.00861	0.09222	0.20753

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7R	**hold**	**CKN (F)**	-0.09489	-0.00392	0.10011
	setup	**CKN (F)**	0.04406	0.10619	0.16094

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7R	**hold**	**CKN (F)**	-0.13071	-0.02889	0.07366
	setup	**CKN (F)**	-0.00130	0.07925	0.18457

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7R	hold	CKN (F)	-0.11924	-0.01563	0.09127
	setup	CKN (F)	-0.06639	0.04683	0.15828

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNQX3H7R	hold	CKN (F)	-0.20682	-0.09727	-0.01829
	setup	CKN (F)	0.03067	0.11519	0.23831

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX3H7R	CKN	(D * SE)	0.00372	0.00387	0.00432
	CKN	(D * SE)	-0.00000	0.00001	0.00003
	CKN	(D * SE)	-0.00003	-0.00001	0.00002
	CKN	(D * SE)	0.00315	0.00330	0.00375
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00372	0.00387	0.00432
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00001	0.00001	0.00002
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00003	-0.00001	0.00004
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00310	0.00330	0.00375
	CKN	(!SE * !SI)	0.00372	0.00387	0.00432
	CKN	(!SE * !SI)	-0.00001	0.00001	0.00001
	CKN	(!SE * !SI)	-0.00003	-0.00001	0.00005
	CKN	(!SE * !SI)	0.00313	0.00330	0.00375
	CKN	(!D * SI)	0.00372	0.00387	0.00432
	CKN	(!D * SI)	0.00000	0.00001	0.00003
	CKN	(!D * SI)	-0.00003	-0.00001	0.00002
	CKN	(!D * SI)	0.00315	0.00330	0.00375

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNQX3H7R	CKN	(D * SE)	0.00435	0.00448	0.00488
	CKN	(D * SE)	0.00001	0.00002	0.00006
	CKN	(D * SE)	0.00002	0.00003	0.00006
	CKN	(D * SE)	0.00376	0.00387	0.00427
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00435	0.00448	0.00488
	CKN	(D * !SE * SI) + (!D * SE * !SI)	-0.00001	0.00001	0.00005
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00000	0.00003	0.00006
	CKN	(D * !SE * SI) + (!D * SE * !SI)	0.00376	0.00388	0.00427
	CKN	(!SE * !SI)	0.00436	0.00448	0.00487
	CKN	(!SE * !SI)	-0.00001	0.00001	0.00006
	CKN	(!SE * !SI)	0.00001	0.00003	0.00006
	CKN	(!SE * !SI)	0.00376	0.00388	0.00427
	CKN	(!D * SI)	0.00436	0.00448	0.00488
	CKN	(!D * SI)	-0.00001	0.00001	0.00006
	CKN	(!D * SI)	0.00000	0.00003	0.00005
	CKN	(!D * SI)	0.00376	0.00388	0.00427

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7R	**(D * SE * SI)**	0.00298	0.00309	0.00347
	(D * SE * SI)	-0.00001	-0.00000	0.00000
	(D * SE * SI)	-0.00000	-0.00000	0.00000
	(D * SE * SI)	0.00359	0.00369	0.00408
	(D * SE * !SI)	0.00258	0.00268	0.00302
	(D * SE * !SI)	-0.00000	-0.00000	0.00000
	(D * SE * !SI)	-0.00000	0.00001	0.00001
	(D * SE * !SI)	0.00315	0.00325	0.00359
	(D * !SE * SI)	0.00298	0.00308	0.00348
	(D * !SE * SI)	-0.00000	0.00000	0.00000
	(D * !SE * SI)	-0.00001	-0.00000	0.00000
	(D * !SE * SI)	0.00358	0.00369	0.00408
	(D * !SE * !SI)	0.00298	0.00308	0.00348
	(D * !SE * !SI)	-0.00000	0.00000	0.00000
	(D * !SE * !SI)	-0.00000	-0.00000	0.00000
	(D * !SE * !SI)	0.00358	0.00369	0.00408
	(!D * SE * SI)	0.00298	0.00309	0.00348
	(!D * SE * SI)	-0.00001	-0.00000	0.00000
	(!D * SE * SI)	-0.00000	-0.00000	0.00000
	(!D * SE * SI)	0.00359	0.00369	0.00408
	(!D * SE * !SI)	0.00258	0.00268	0.00302
	(!D * SE * !SI)	-0.00000	-0.00000	0.00000
	(!D * SE * !SI)	0.00000	0.00001	0.00002
	(!D * SE * !SI)	0.00315	0.00324	0.00359
	(!D * !SE * SI)	0.00258	0.00268	0.00302
	(!D * !SE * SI)	-0.00000	-0.00000	0.00000
	(!D * !SE * SI)	-0.00000	0.00001	0.00001
	(!D * !SE * SI)	0.00315	0.00325	0.00359
	(!D * !SE * !SI)	0.00258	0.00268	0.00302
	(!D * !SE * !SI)	-0.00000	-0.00000	0.00000
	(!D * !SE * !SI)	-0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00315	0.00325	0.00359

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7R	**(D * SE * SI)**	0.00199	0.00210	0.00246
	(D * SE * SI)	0.00000	0.00001	0.00002
	(D * SE * SI)	0.00000	0.00000	0.00000
	(D * SE * SI)	0.00142	0.00152	0.00188
	(D * SE * !SI)	0.00216	0.00226	0.00262
	(D * SE * !SI)	0.00000	0.00000	0.00000
	(D * SE * !SI)	0.00000	0.00001	0.00002
	(D * SE * !SI)	0.00156	0.00166	0.00202
	(D * !SE * SI)	0.00199	0.00209	0.00246
	(D * !SE * SI)	0.00001	0.00001	0.00002
	(D * !SE * SI)	0.00000	0.00000	0.00001
	(D * !SE * SI)	0.00141	0.00151	0.00188
	(D * !SE * !SI)	0.00199	0.00209	0.00246
	(D * !SE * !SI)	0.00000	0.00001	0.00002
	(D * !SE * !SI)	0.00000	0.00000	0.00000
	(D * !SE * !SI)	0.00141	0.00152	0.00188
	(!D * SE * SI)	0.00199	0.00210	0.00246
	(!D * SE * SI)	0.00000	0.00001	0.00002
	(!D * SE * SI)	0.00000	0.00000	0.00000
	(!D * SE * SI)	0.00142	0.00152	0.00188
	(!D * SE * !SI)	0.00216	0.00226	0.00262
	(!D * SE * !SI)	0.00000	0.00000	0.00000
	(!D * SE * !SI)	0.00000	0.00001	0.00002
	(!D * SE * !SI)	0.00156	0.00166	0.00202
	(!D * !SE * SI)	0.00216	0.00226	0.00262
	(!D * !SE * SI)	0.00000	0.00000	0.00000
	(!D * !SE * SI)	0.00000	0.00001	0.00002
	(!D * !SE * SI)	0.00156	0.00166	0.00202
	(!D * !SE * !SI)	0.00216	0.00226	0.00262
	(!D * !SE * !SI)	0.00000	0.00000	0.00000
	(!D * !SE * !SI)	0.00000	0.00001	0.00002
	(!D * !SE * !SI)	0.00156	0.00166	0.00202

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7R	**(CKN * SE * SI)**	-0.00009	-0.00008	-0.00007
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * SI)	0.00001	0.00001	0.00001
	(CKN * SE * SI)	0.00025	0.00025	0.00025
	(CKN * SE * !SI)	-0.00009	-0.00008	-0.00007
	(CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * !SI)	0.00001	0.00001	0.00001
	(CKN * SE * !SI)	0.00025	0.00025	0.00025
	(CKN * !SE * SI)	0.00158	0.00162	0.00180
	(CKN * !SE * SI)	0.00011	0.00011	0.00011
	(CKN * !SE * SI)	-0.00011	-0.00011	-0.00010
	(CKN * !SE * SI)	0.00238	0.00243	0.00260
	(CKN * !SE * !SI)	0.00158	0.00163	0.00180
	(CKN * !SE * !SI)	0.00010	0.00011	0.00011
	(CKN * !SE * !SI)	-0.00011	-0.00011	-0.00010
	(CKN * !SE * !SI)	0.00239	0.00243	0.00260
	(!CKN * SE * SI)	-0.00009	-0.00008	-0.00007
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * SI)	0.00001	0.00001	0.00001
	(!CKN * SE * SI)	0.00025	0.00025	0.00026
	(!CKN * SE * !SI)	-0.00009	-0.00008	-0.00007
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	0.00025	0.00025	0.00025
	(!CKN * !SE * SI)	0.00023	0.00028	0.00047
	(!CKN * !SE * SI)	0.00010	0.00011	0.00011
	(!CKN * !SE * SI)	-0.00010	-0.00010	-0.00010
	(!CKN * !SE * SI)	0.00109	0.00114	0.00132
	(!CKN * !SE * !SI)	0.00023	0.00028	0.00047
	(!CKN * !SE * !SI)	0.00010	0.00011	0.00011
	(!CKN * !SE * !SI)	-0.00010	-0.00010	-0.00010
	(!CKN * !SE * !SI)	0.00109	0.00114	0.00132

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7R	**(CKN * SE * SI)**	0.00009	0.00009	0.00009
	(CKN * SE * SI)	0.00001	0.00001	0.00001
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * SI)	-0.00024	-0.00024	-0.00023
	(CKN * SE * !SI)	0.00009	0.00009	0.00010
	(CKN * SE * !SI)	0.00001	0.00001	0.00001
	(CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * !SI)	-0.00025	-0.00024	-0.00023
	(CKN * !SE * SI)	0.00191	0.00196	0.00216
	(CKN * !SE * SI)	-0.00011	-0.00011	-0.00011
	(CKN * !SE * SI)	0.00010	0.00011	0.00011
	(CKN * !SE * SI)	0.00110	0.00116	0.00135
	(CKN * !SE * !SI)	0.00191	0.00196	0.00216
	(CKN * !SE * !SI)	-0.00011	-0.00011	-0.00010
	(CKN * !SE * !SI)	0.00010	0.00011	0.00011
	(CKN * !SE * !SI)	0.00110	0.00116	0.00135
	(!CKN * SE * SI)	0.00009	0.00009	0.00009
	(!CKN * SE * SI)	0.00001	0.00001	0.00001
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * SI)	-0.00024	-0.00024	-0.00023
	(!CKN * SE * !SI)	0.00009	0.00009	0.00010
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	-0.00024	-0.00024	-0.00023
	(!CKN * !SE * SI)	0.00098	0.00103	0.00123
	(!CKN * !SE * SI)	-0.00011	-0.00011	-0.00010
	(!CKN * !SE * SI)	0.00010	0.00010	0.00011
	(!CKN * !SE * SI)	0.00012	0.00017	0.00038
	(!CKN * !SE * !SI)	0.00098	0.00103	0.00123
	(!CKN * !SE * !SI)	-0.00011	-0.00011	-0.00010
	(!CKN * !SE * !SI)	0.00010	0.00010	0.00011
	(!CKN * !SE * !SI)	0.00012	0.00017	0.00037

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7R	**(CKN * D * SI)**	-0.00011	0.00001	0.00042
	(CKN * D * SI)	0.00002	0.00002	0.00002
	(CKN * D * SI)	-0.00002	-0.00002	-0.00001
	(CKN * D * SI)	0.00095	0.00106	0.00148
	(CKN * D * !SI)	0.00195	0.00205	0.00244
	(CKN * D * !SI)	-0.00006	-0.00006	-0.00005
	(CKN * D * !SI)	0.00005	0.00006	0.00007
	(CKN * D * !SI)	0.00266	0.00277	0.00315
	(CKN * !D * SI)	0.00119	0.00139	0.00212
	(CKN * !D * SI)	0.00010	0.00011	0.00011
	(CKN * !D * SI)	-0.00011	-0.00010	-0.00009
	(CKN * !D * SI)	0.00260	0.00280	0.00353
	(CKN * !D * !SI)	-0.00006	0.00006	0.00049
	(CKN * !D * !SI)	0.00001	0.00002	0.00003
	(CKN * !D * !SI)	-0.00002	-0.00002	-0.00001
	(CKN * !D * !SI)	0.00100	0.00112	0.00155
	(!CKN * D * SI)	-0.00011	0.00001	0.00042
	(!CKN * D * SI)	0.00002	0.00002	0.00002
	(!CKN * D * SI)	-0.00002	-0.00001	-0.00000
	(!CKN * D * SI)	0.00095	0.00106	0.00148
	(!CKN * D * !SI)	0.00102	0.00113	0.00150
	(!CKN * D * !SI)	-0.00007	-0.00006	-0.00006
	(!CKN * D * !SI)	0.00004	0.00005	0.00006
	(!CKN * D * !SI)	0.00167	0.00178	0.00215
	(!CKN * !D * SI)	-0.00018	0.00004	0.00082
	(!CKN * !D * SI)	0.00010	0.00011	0.00011
	(!CKN * !D * SI)	-0.00010	-0.00009	-0.00008
	(!CKN * !D * SI)	0.00129	0.00151	0.00229
	(!CKN * !D * !SI)	-0.00006	0.00006	0.00049
	(!CKN * !D * !SI)	0.00002	0.00002	0.00002
	(!CKN * !D * !SI)	-0.00003	-0.00002	-0.00002
	(!CKN * !D * !SI)	0.00100	0.00112	0.00155

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7R	**(CKN * D * SI)**	0.00094	0.00107	0.00153
	(CKN * D * SI)	-0.00002	-0.00002	-0.00001
	(CKN * D * SI)	0.00002	0.00002	0.00004
	(CKN * D * SI)	-0.00012	0.00001	0.00047
	(CKN * D * !SI)	0.00264	0.00278	0.00325
	(CKN * D * !SI)	0.00005	0.00006	0.00006
	(CKN * D * !SI)	-0.00007	-0.00006	-0.00005
	(CKN * D * !SI)	0.00192	0.00206	0.00253
	(CKN * !D * SI)	0.00242	0.00264	0.00344
	(CKN * !D * SI)	-0.00011	-0.00010	-0.00009
	(CKN * !D * SI)	0.00009	0.00010	0.00011
	(CKN * !D * SI)	0.00102	0.00123	0.00203
	(CKN * !D * !SI)	0.00087	0.00100	0.00146
	(CKN * !D * !SI)	-0.00002	-0.00002	-0.00001
	(CKN * !D * !SI)	0.00001	0.00002	0.00002
	(CKN * !D * !SI)	-0.00020	-0.00006	0.00039
	(!CKN * D * SI)	0.00093	0.00107	0.00153
	(!CKN * D * SI)	-0.00002	-0.00002	-0.00002
	(!CKN * D * SI)	0.00000	0.00001	0.00002
	(!CKN * D * SI)	-0.00012	0.00001	0.00047
	(!CKN * D * !SI)	0.00131	0.00144	0.00189
	(!CKN * D * !SI)	0.00006	0.00006	0.00008
	(!CKN * D * !SI)	-0.00006	-0.00005	-0.00004
	(!CKN * D * !SI)	0.00065	0.00079	0.00124
	(!CKN * !D * SI)	0.00147	0.00172	0.00256
	(!CKN * !D * SI)	-0.00011	-0.00010	-0.00010
	(!CKN * !D * SI)	0.00009	0.00010	0.00010
	(!CKN * !D * SI)	0.00001	0.00025	0.00109
	(!CKN * !D * !SI)	0.00086	0.00100	0.00146
	(!CKN * !D * !SI)	-0.00002	-0.00002	-0.00000
	(!CKN * !D * !SI)	0.00002	0.00002	0.00003
	(!CKN * !D * !SI)	-0.00020	-0.00007	0.00039

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7R	**(CKN * D * SE)**	0.00132	0.00136	0.00151
	(CKN * D * SE)	0.00010	0.00010	0.00010
	(CKN * D * SE)	-0.00010	-0.00010	-0.00010
	(CKN * D * SE)	0.00207	0.00211	0.00226
	(CKN * D * !SE)	-0.00012	-0.00012	-0.00011
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * D * !SE)	0.00000	0.00001	0.00001
	(CKN * D * !SE)	0.00019	0.00019	0.00019
	(CKN * !D * SE)	0.00132	0.00136	0.00151
	(CKN * !D * SE)	0.00010	0.00010	0.00010
	(CKN * !D * SE)	-0.00011	-0.00010	-0.00010
	(CKN * !D * SE)	0.00207	0.00211	0.00226
	(CKN * !D * !SE)	-0.00013	-0.00013	-0.00012
	(CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * !D * !SE)	0.00000	0.00001	0.00001
	(CKN * !D * !SE)	0.00018	0.00018	0.00018
	(!CKN * D * SE)	-0.00003	0.00001	0.00016
	(!CKN * D * SE)	0.00009	0.00010	0.00010
	(!CKN * D * SE)	-0.00009	-0.00009	-0.00009
	(!CKN * D * SE)	0.00078	0.00081	0.00097
	(!CKN * D * !SE)	-0.00012	-0.00012	-0.00011
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	0.00001	0.00001	0.00001
	(!CKN * D * !SE)	0.00019	0.00019	0.00019
	(!CKN * !D * SE)	-0.00003	0.00001	0.00016
	(!CKN * !D * SE)	0.00010	0.00010	0.00011
	(!CKN * !D * SE)	-0.00010	-0.00009	-0.00009
	(!CKN * !D * SE)	0.00078	0.00082	0.00097
	(!CKN * !D * !SE)	-0.00013	-0.00013	-0.00012
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	0.00018	0.00018	0.00018

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNQX3H7R	**(CKN * D * SE)**	0.00214	0.00218	0.00235
	(CKN * D * SE)	-0.00010	-0.00010	-0.00010
	(CKN * D * SE)	0.00010	0.00010	0.00010
	(CKN * D * SE)	0.00139	0.00143	0.00160
	(CKN * D * !SE)	0.00012	0.00012	0.00012
	(CKN * D * !SE)	0.00001	0.00001	0.00001
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00000
	(CKN * D * !SE)	-0.00019	-0.00018	-0.00017
	(CKN * !D * SE)	0.00214	0.00218	0.00235
	(CKN * !D * SE)	-0.00010	-0.00010	-0.00010
	(CKN * !D * SE)	0.00010	0.00010	0.00011
	(CKN * !D * SE)	0.00139	0.00143	0.00160
	(CKN * !D * !SE)	0.00013	0.00014	0.00014
	(CKN * !D * !SE)	0.00001	0.00001	0.00001
	(CKN * !D * !SE)	-0.00001	-0.00001	-0.00000
	(CKN * !D * !SE)	-0.00017	-0.00017	-0.00016
	(!CKN * D * SE)	0.00119	0.00123	0.00140
	(!CKN * D * SE)	-0.00010	-0.00010	-0.00009
	(!CKN * D * SE)	0.00009	0.00009	0.00009
	(!CKN * D * SE)	0.00039	0.00043	0.00060
	(!CKN * D * !SE)	0.00012	0.00012	0.00012
	(!CKN * D * !SE)	0.00001	0.00001	0.00001
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	-0.00019	-0.00018	-0.00017
	(!CKN * !D * SE)	0.00119	0.00123	0.00140
	(!CKN * !D * SE)	-0.00011	-0.00010	-0.00010
	(!CKN * !D * SE)	0.00009	0.00009	0.00010
	(!CKN * !D * SE)	0.00039	0.00043	0.00060
	(!CKN * !D * !SE)	0.00013	0.00014	0.00014
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	-0.00017	-0.00017	-0.00016

SDFFNRX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q =!RN ?0 : falling (CKN) ? (SE&S1! !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	RN	SE	SI	Q	QN
F	0	1	0	x	0	1
F	x	1	1	0	0	1
F	x	1	1	1	1	0
F	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNRX0P5H7R	10.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	RN	SE	SI	Q	QN
SDFFNRX0P5H7R	0.00083	0.00073	0.00087	0.00180	0.00081	0.05953	0.05966

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNRX0P5H7R	0.00000	1.31595	1.72389

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX0P5H7R	CKN->Q (FR)	(RN * SE)	0.14473	0.29799	0.67494
	CKN->Q (FR)	(RN * !SE)	0.14472	0.29797	0.67494

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX0P5H7R	CKN->Q (FF)	(RN * SE)	0.10445	0.23420	0.54310
	CKN->Q (FF)	(RN * !SE)	0.10448	0.23422	0.54318
	RN->Q (FF)	(CKN * D * SE * SI)	0.07776	0.19746	0.48469
	RN->Q (FF)	(CKN * D * SE * !SI)	0.07710	0.19634	0.48255
	RN->Q (FF)	(CKN * D * !SE * SI)	0.07777	0.19747	0.48469
	RN->Q (FF)	(CKN * D * !SE * !SI)	0.07777	0.19746	0.48469
	RN->Q (FF)	(CKN * !D * SE * SI)	0.07776	0.19747	0.48469
	RN->Q (FF)	(CKN * !D * SE * !SI)	0.07710	0.19634	0.48255
	RN->Q (FF)	(CKN * !D * !SE * SI)	0.07710	0.19634	0.48255
	RN->Q (FF)	(CKN * !D * !SE * !SI)	0.07710	0.19634	0.48255
	RN->Q (FF)	(!CKN * D * SE * SI)	0.08465	0.20472	0.49256
	RN->Q (FF)	(!CKN * D * SE * !SI)	0.08465	0.20472	0.49256
	RN->Q (FF)	(!CKN * D * !SE * SI)	0.08465	0.20472	0.49256
	RN->Q (FF)	(!CKN * D * !SE * !SI)	0.08465	0.20472	0.49256
	RN->Q (FF)	(!CKN * !D * SE * SI)	0.08465	0.20472	0.49256
	RN->Q (FF)	(!CKN * !D * SE * !SI)	0.08465	0.20472	0.49256
	RN->Q (FF)	(!CKN * !D * !SE * SI)	0.08465	0.20472	0.49256
	RN->Q (FF)	(!CKN * !D * !SE * !SI)	0.08465	0.20472	0.49256

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX0P5H7R	CKN->QN (FR)	(RN * SE)	0.07751	0.23842	0.62231
	CKN->QN (FR)	(RN * !SE)	0.07753	0.23845	0.62227
	RN->QN (FR)	(CKN * D * SE * SI)	0.05336	0.19947	0.55862
	RN->QN (FR)	(CKN * D * SE * !SI)	0.05290	0.19843	0.55710
	RN->QN (FR)	(CKN * D * !SE * SI)	0.05336	0.19947	0.55862
	RN->QN (FR)	(CKN * D * !SE * !SI)	0.05336	0.19947	0.55862
	RN->QN (FR)	(CKN * !D * SE * SI)	0.05336	0.19947	0.55862
	RN->QN (FR)	(CKN * !D * SE * !SI)	0.05290	0.19843	0.55710
	RN->QN (FR)	(CKN * !D * !SE * SI)	0.05290	0.19842	0.55711
	RN->QN (FR)	(CKN * !D * !SE * !SI)	0.05290	0.19842	0.55711
	RN->QN (FR)	(!CKN * D * SE * SI)	0.05780	0.20796	0.57010
	RN->QN (FR)	(!CKN * D * SE * !SI)	0.05780	0.20796	0.57009
	RN->QN (FR)	(!CKN * D * !SE * SI)	0.05780	0.20796	0.57009
	RN->QN (FR)	(!CKN * D * !SE * !SI)	0.05780	0.20796	0.57010
	RN->QN (FR)	(!CKN * !D * SE * SI)	0.05780	0.20796	0.57010
	RN->QN (FR)	(!CKN * !D * SE * !SI)	0.05780	0.20796	0.57009
	RN->QN (FR)	(!CKN * !D * !SE * SI)	0.05780	0.20796	0.57009
	RN->QN (FR)	(!CKN * !D * !SE * !SI)	0.05780	0.20796	0.57009

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX0P5H7R	CKN->QN (FF)	(RN * SE)	0.11410	0.26434	0.58486
	CKN->QN (FF)	(RN * !SE)	0.11410	0.26433	0.58485

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNRX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7R	**hold**	**CKN (F)**	-0.05705	0.01234	0.10883
	setup	**CKN (F)**	-0.06805	0.04055	0.14528

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7R	**hold**	**CKN (F)**	-0.13657	-0.05078	0.00897
	setup	**CKN (F)**	0.02487	0.10400	0.22201

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7R	**recovery**	**CKN (F)**	-0.11296	-0.00774	0.06801
	removal	**CKN (F)**	0.02790	0.07942	0.16732

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFNRX0P5H7R	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7R	hold	CKN (F)	-0.03432	0.01849	0.11145
	setup	CKN (F)	0.03991	0.09788	0.15319

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7R	hold	CKN (F)	-0.09001	-0.00252	0.09326
	setup	CKN (F)	0.01573	0.09480	0.21394

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7R	hold	CKN (F)	-0.06848	0.00526	0.10466
	setup	CKN (F)	-0.06153	0.05100	0.16228

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX0P5H7R	hold	CKN (F)	-0.14434	-0.05674	0.00113
	setup	CKN (F)	0.03526	0.11213	0.23369

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX0P5H7R	CKN	(RN * SE)	0.00248	0.00257	0.00286
	CKN	(RN * SE)	-0.00002	-0.00001	0.00000
	CKN	(RN * SE)	0.00000	0.00002	0.00004
	CKN	(RN * SE)	0.00216	0.00226	0.00255
	CKN	(RN * !SE)	0.00248	0.00257	0.00286
	CKN	(RN * !SE)	-0.00001	-0.00001	0.00000
	CKN	(RN * !SE)	0.00001	0.00002	0.00002
	CKN	(RN * !SE)	0.00216	0.00226	0.00255

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(RN * SE)**	0.00217	0.00226	0.00251
	CKN	**(RN * SE)**	0.00000	0.00001	0.00003
	CKN	**(RN * SE)**	-0.00003	-0.00002	-0.00000
	CKN	**(RN * SE)**	0.00191	0.00200	0.00226
	CKN	**(RN * !SE)**	0.00217	0.00226	0.00251
	CKN	**(RN * !SE)**	0.00000	0.00001	0.00001
	CKN	**(RN * !SE)**	-0.00002	-0.00002	-0.00001
	CKN	**(RN * !SE)**	0.00191	0.00201	0.00226
	RN	**(CKN * D * SE * SI)**	0.00166	0.00175	0.00203
	RN	**(CKN * D * SE * SI)**	0.00000	0.00002	0.00003
	RN	**(CKN * D * SE * SI)**	-0.00004	-0.00003	-0.00001
	RN	**(CKN * D * SE * SI)**	0.00139	0.00150	0.00179
	RN	**(CKN * D * SE * !SI)**	0.00165	0.00174	0.00203
	RN	**(CKN * D * SE * !SI)**	0.00000	0.00002	0.00004
	RN	**(CKN * D * SE * !SI)**	-0.00005	-0.00003	-0.00003
	RN	**(CKN * D * SE * !SI)**	0.00140	0.00148	0.00178
	RN	**(CKN * D * !SE * SI)**	0.00166	0.00175	0.00203
	RN	**(CKN * D * !SE * SI)**	0.00000	0.00002	0.00003
	RN	**(CKN * D * !SE * SI)**	-0.00006	-0.00003	-0.00001
	RN	**(CKN * D * !SE * SI)**	0.00138	0.00150	0.00179
	RN	**(CKN * D * !SE * !SI)**	0.00166	0.00175	0.00203
	RN	**(CKN * D * !SE * !SI)**	0.00000	0.00002	0.00003
	RN	**(CKN * D * !SE * !SI)**	-0.00006	-0.00003	-0.00001
	RN	**(CKN * D * !SE * !SI)**	0.00138	0.00150	0.00179
	RN	**(CKN * !D * SE * SI)**	0.00166	0.00175	0.00203
	RN	**(CKN * !D * SE * SI)**	0.00000	0.00002	0.00003
	RN	**(CKN * !D * SE * SI)**	-0.00004	-0.00003	-0.00001
	RN	**(CKN * !D * SE * SI)**	0.00139	0.00150	0.00179
	RN	**(CKN * !D * SE * !SI)**	0.00165	0.00174	0.00203
	RN	**(CKN * !D * SE * !SI)**	0.00002	0.00002	0.00004
	RN	**(CKN * !D * SE * !SI)**	-0.00005	-0.00003	-0.00003
	RN	**(CKN * !D * SE * !SI)**	0.00140	0.00148	0.00178
	RN	**(CKN * !D * !SE * SI)**	0.00165	0.00174	0.00202
	RN	**(CKN * !D * !SE * SI)**	-0.00000	0.00002	0.00004
	RN	**(CKN * !D * !SE * SI)**	-0.00005	-0.00003	-0.00003
SDFFNRX0P5H7R	**RN**	**(CKN * !D * !SE * SI)**	0.00140	0.00148	0.00177
	RN	**(CKN * !D * !SE * !SI)**	0.00165	0.00174	0.00202
	RN	**(CKN * !D * !SE * !SI)**	-0.00000	0.00002	0.00004
	RN	**(CKN * !D * !SE * !SI)**	-0.00005	-0.00003	-0.00003
	RN	**(CKN * !D * !SE * !SI)**	0.00140	0.00148	0.00177
	RN	**(!CKN * D * SE * SI)**	0.00231	0.00239	0.00265
	RN	**(!CKN * D * SE * SI)**	-0.00001	0.00000	0.00000
	RN	**(!CKN * D * SE * SI)**	-0.00002	-0.00000	0.00000
	RN	**(!CKN * D * SE * SI)**	0.00200	0.00208	0.00235
	RN	**(!CKN * D * SE * !SI)**	0.00228	0.00236	0.00262
	RN	**(!CKN * D * SE * !SI)**	-0.00002	0.00000	0.00000
	RN	**(!CKN * D * SE * !SI)**	-0.00000	0.00000	0.00002
	RN	**(!CKN * D * SE * !SI)**	0.00197	0.00205	0.00231
	RN	**(!CKN * D * !SE * SI)**	0.00231	0.00239	0.00265
	RN	**(!CKN * D * !SE * SI)**	-0.00001	0.00000	0.00000
	RN	**(!CKN * D * !SE * SI)**	-0.00000	0.00000	0.00002
	RN	**(!CKN * D * !SE * SI)**	0.00200	0.00208	0.00235
	RN	**(!CKN * D * !SE * !SI)**	0.00231	0.00239	0.00265
	RN	**(!CKN * D * !SE * !SI)**	-0.00001	0.00000	0.00000
	RN	**(!CKN * D * !SE * !SI)**	-0.00000	0.00000	0.00002
	RN	**(!CKN * D * !SE * !SI)**	0.00200	0.00208	0.00235
	RN	**(!CKN * !D * SE * SI)**	0.00231	0.00239	0.00265
	RN	**(!CKN * !D * SE * SI)**	-0.00001	0.00000	0.00000
	RN	**(!CKN * !D * SE * SI)**	-0.00002	-0.00000	0.00000
	RN	**(!CKN * !D * SE * SI)**	0.00200	0.00208	0.00235
	RN	**(!CKN * !D * SE * !SI)**	0.00228	0.00236	0.00262
	RN	**(!CKN * !D * SE * !SI)**	-0.00002	0.00000	0.00000
	RN	**(!CKN * !D * SE * !SI)**	-0.00000	0.00000	0.00002
	RN	**(!CKN * !D * SE * !SI)**	0.00197	0.00205	0.00231
	RN	**(!CKN * !D * !SE * SI)**	0.00228	0.00236	0.00262
	RN	**(!CKN * !D * !SE * SI)**	-0.00001	0.00000	0.00000
	RN	**(!CKN * !D * !SE * SI)**	-0.00000	0.00000	0.00000
	RN	**(!CKN * !D * !SE * SI)**	0.00197	0.00205	0.00231
	RN	**(!CKN * !D * !SE * !SI)**	0.00228	0.00236	0.00262
	RN	**(!CKN * !D * !SE * !SI)**	-0.00001	0.00000	0.00000
	RN	**(!CKN * !D * !SE * !SI)**	-0.00000	0.00000	0.00000
	RN	**(!CKN * !D * !SE * !SI)**	0.00197	0.00205	0.00231

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNRX0P5H7R	**CKN**	**(RN * SE)**	0.00217	0.00226	0.00252
	CKN	**(RN * SE)**	0.00000	0.00001	0.00003
	CKN	**(RN * SE)**	-0.00003	-0.00002	-0.00001
	CKN	**(RN * SE)**	0.00191	0.00201	0.00227
	CKN	**(RN * !SE)**	0.00216	0.00226	0.00252
	CKN	**(RN * !SE)**	0.00000	0.00001	0.00003
	CKN	**(RN * !SE)**	-0.00003	-0.00002	-0.00001
	CKN	**(RN * !SE)**	0.00190	0.00200	0.00226
	RN	**(CKN * D * SE * SI)**	0.00166	0.00175	0.00204
	RN	**(CKN * D * SE * SI)**	-0.00000	0.00003	0.00005
	RN	**(CKN * D * SE * SI)**	-0.00006	-0.00003	-0.00000
	RN	**(CKN * D * SE * SI)**	0.00141	0.00150	0.00181
	RN	**(CKN * D * SE * !SI)**	0.00164	0.00175	0.00203
	RN	**(CKN * D * SE * !SI)**	-0.00001	0.00002	0.00004
	RN	**(CKN * D * SE * !SI)**	-0.00006	-0.00003	-0.00001
	RN	**(CKN * D * SE * !SI)**	0.00138	0.00148	0.00178
	RN	**(CKN * D * !SE * SI)**	0.00166	0.00175	0.00204
	RN	**(CKN * D * !SE * SI)**	-0.00000	0.00002	0.00003
	RN	**(CKN * D * !SE * SI)**	-0.00006	-0.00003	-0.00000
	RN	**(CKN * D * !SE * SI)**	0.00140	0.00150	0.00181
	RN	**(CKN * D * !SE * !SI)**	0.00166	0.00175	0.00204
	RN	**(CKN * D * !SE * !SI)**	-0.00000	0.00002	0.00003
	RN	**(CKN * D * !SE * !SI)**	-0.00006	-0.00003	-0.00000
	RN	**(CKN * D * !SE * !SI)**	0.00140	0.00150	0.00181
	RN	**(CKN * !D * SE * SI)**	0.00164	0.00175	0.00204
	RN	**(CKN * !D * SE * SI)**	-0.00000	0.00003	0.00005
	RN	**(CKN * !D * SE * SI)**	-0.00005	-0.00003	0.00000
	RN	**(CKN * !D * SE * SI)**	0.00140	0.00150	0.00181
	RN	**(CKN * !D * SE * !SI)**	0.00164	0.00175	0.00203
	RN	**(CKN * !D * SE * !SI)**	-0.00001	0.00002	0.00004
	RN	**(CKN * !D * SE * !SI)**	-0.00006	-0.00003	-0.00001
	RN	**(CKN * !D * SE * !SI)**	0.00138	0.00148	0.00178
	RN	**(CKN * !D * !SE * SI)**	0.00164	0.00175	0.00203
	RN	**(CKN * !D * !SE * SI)**	-0.00000	0.00002	0.00005
	RN	**(CKN * !D * !SE * SI)**	-0.00006	-0.00003	-0.00001
	RN	**(CKN * !D * !SE * SI)**	0.00138	0.00148	0.00178
	RN	**(CKN * !D * !SE * !SI)**	0.00164	0.00175	0.00203
	RN	**(CKN * !D * !SE * !SI)**	-0.00000	0.00002	0.00005
	RN	**(CKN * !D * !SE * !SI)**	-0.00006	-0.00003	-0.00001
	RN	**(CKN * !D * !SE * !SI)**	0.00138	0.00148	0.00178
	RN	**(!CKN * D * SE * SI)**	0.00229	0.00239	0.00266
	RN	**(!CKN * D * SE * SI)**	-0.00002	0.00000	0.00003
	RN	**(!CKN * D * SE * SI)**	-0.00000	0.00000	0.00001
	RN	**(!CKN * D * SE * SI)**	0.00199	0.00208	0.00236
	RN	**(!CKN * D * SE * !SI)**	0.00226	0.00236	0.00263
	RN	**(!CKN * D * SE * !SI)**	-0.00003	0.00000	0.00002
	RN	**(!CKN * D * SE * !SI)**	-0.00002	-0.00000	0.00001
	RN	**(!CKN * D * SE * !SI)**	0.00195	0.00205	0.00233
	RN	**(!CKN * D * !SE * SI)**	0.00229	0.00239	0.00266
	RN	**(!CKN * D * !SE * SI)**	-0.00001	0.00000	0.00003
	RN	**(!CKN * D * !SE * SI)**	-0.00000	0.00000	0.00003
	RN	**(!CKN * D * !SE * SI)**	0.00198	0.00208	0.00236
	RN	**(!CKN * D * !SE * !SI)**	0.00229	0.00239	0.00266
	RN	**(!CKN * D * !SE * !SI)**	-0.00001	0.00000	0.00003
	RN	**(!CKN * D * !SE * !SI)**	-0.00002	0.00000	0.00003
	RN	**(!CKN * D * !SE * !SI)**	0.00198	0.00208	0.00236
	RN	**(!CKN * !D * SE * SI)**	0.00229	0.00239	0.00266
	RN	**(!CKN * !D * SE * SI)**	-0.00002	0.00000	0.00003
	RN	**(!CKN * !D * SE * SI)**	-0.00000	0.00000	0.00001
	RN	**(!CKN * !D * SE * SI)**	0.00199	0.00208	0.00236
	RN	**(!CKN * !D * SE * !SI)**	0.00228	0.00236	0.00263
	RN	**(!CKN * !D * SE * !SI)**	-0.00002	0.00000	0.00002
	RN	**(!CKN * !D * SE * !SI)**	-0.00002	-0.00000	0.00001
	RN	**(!CKN * !D * SE * !SI)**	0.00196	0.00205	0.00233
	RN	**(!CKN * !D * !SE * SI)**	0.00225	0.00236	0.00263
	RN	**(!CKN * !D * !SE * SI)**	0.00000	0.00000	0.00003
	RN	**(!CKN * !D * !SE * SI)**	0.00000	0.00000	0.00001
	RN	**(!CKN * !D * !SE * SI)**	0.00195	0.00205	0.00233
	RN	**(!CKN * !D * !SE * !SI)**	0.00225	0.00236	0.00263
	RN	**(!CKN * !D * !SE * !SI)**	-0.00003	0.00000	0.00002
	RN	**(!CKN * !D * !SE * !SI)**	0.00000	0.00000	0.00001
	RN	**(!CKN * !D * !SE * !SI)**	0.00195	0.00205	0.00233

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX0P5H7R	CKN	(RN * SE)	0.00248	0.00257	0.00286
	CKN	(RN * SE)	-0.00002	-0.00001	0.00000
	CKN	(RN * SE)	0.00001	0.00002	0.00004
	CKN	(RN * SE)	0.00217	0.00226	0.00255
	CKN	(RN * !SE)	0.00248	0.00257	0.00286
	CKN	(RN * !SE)	-0.00002	-0.00001	0.00000
	CKN	(RN * !SE)	0.00001	0.00002	0.00004
	CKN	(RN * !SE)	0.00216	0.00226	0.00255

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7R	0.00274	0.00288	0.00337
	-0.00000	-0.00000	0.00000
	-0.00005	-0.00004	-0.00003
	0.00334	0.00348	0.00397

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7R	0.00364	0.00375	0.00414
	0.00000	0.00000	0.00000
	0.00003	0.00004	0.00005
	0.00302	0.00313	0.00353

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7R	0.00134	0.00139	0.00161
	0.00013	0.00013	0.00013
	-0.00013	-0.00013	-0.00012
	0.00234	0.00239	0.00261

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7R	0.00244	0.00249	0.00270
	-0.00013	-0.00013	-0.00013
	0.00012	0.00013	0.00014
	0.00140	0.00146	0.00168

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7R	0.00094	0.00108	0.00158
	0.00000	0.00000	0.00000
	-0.00001	0.00000	0.00000
	0.00145	0.00158	0.00208

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7R	0.00081	0.00096	0.00150
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00003
	0.00014	0.00029	0.00083

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7R	0.00226	0.00239	0.00286
	0.00000	0.00000	0.00000
	0.00010	0.00011	0.00011
	0.00281	0.00295	0.00342

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7R	0.00307	0.00332	0.00421
	0.00000	0.00000	0.00000
	0.00016	0.00016	0.00017
	0.00132	0.00158	0.00248

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7R	0.00115	0.00120	0.00138
	0.00013	0.00013	0.00013
	-0.00013	-0.00012	-0.00011
	0.00218	0.00223	0.00241

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX0P5H7R	0.00260	0.00265	0.00282
	-0.00013	-0.00013	-0.00013
	0.00011	0.00012	0.00013
	0.00155	0.00160	0.00178

SDFFNRX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q =!RN ?0 : falling (CKN) ? (SE&SI! !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	RN	SE	SI	Q	QN
F	0	1	0	x	0	1
F	x	1	1	0	0	1
F	x	1	1	1	1	0
F	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNRX1H7R	10.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	RN	SE	SI	Q	QN
SDFFNRX1H7R	0.00082	0.00073	0.00088	0.00175	0.00081	0.07034	0.07046

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNRX1H7R	0.00000	1.36522	1.77762

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX1H7R	CKN->Q (FR)	(RN * SE)	0.14586	0.29936	0.67653
	CKN->Q (FR)	(RN * !SE)	0.14581	0.29936	0.67652

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX1H7R	CKN->Q (FF)	(RN * SE)	0.10208	0.23298	0.54414
	CKN->Q (FF)	(RN * !SE)	0.10208	0.23302	0.54416
	RN->Q (FF)	(CKN * D * SE * SI)	0.07811	0.19888	0.48820
	RN->Q (FF)	(CKN * D * SE * !SI)	0.07742	0.19771	0.48599
	RN->Q (FF)	(CKN * D * !SE * SI)	0.07812	0.19888	0.48820
	RN->Q (FF)	(CKN * D * !SE * !SI)	0.07812	0.19888	0.48820
	RN->Q (FF)	(CKN * !D * SE * SI)	0.07811	0.19888	0.48820
	RN->Q (FF)	(CKN * !D * SE * !SI)	0.07742	0.19771	0.48599
	RN->Q (FF)	(CKN * !D * !SE * SI)	0.07742	0.19771	0.48599
	RN->Q (FF)	(CKN * !D * !SE * !SI)	0.07742	0.19771	0.48599
	RN->Q (FF)	(!CKN * D * SE * SI)	0.08562	0.20680	0.49721
	RN->Q (FF)	(!CKN * D * SE * !SI)	0.08562	0.20680	0.49722
	RN->Q (FF)	(!CKN * D * !SE * SI)	0.08562	0.20680	0.49721
	RN->Q (FF)	(!CKN * D * !SE * !SI)	0.08562	0.20680	0.49721
	RN->Q (FF)	(!CKN * !D * SE * SI)	0.08562	0.20680	0.49721
	RN->Q (FF)	(!CKN * !D * SE * !SI)	0.08562	0.20680	0.49722
	RN->Q (FF)	(!CKN * !D * !SE * SI)	0.08562	0.20680	0.49722
	RN->Q (FF)	(!CKN * !D * !SE * !SI)	0.08562	0.20680	0.49722

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX1H7R	CKN->QN (FR)	(RN * SE)	0.07400	0.23474	0.61838
	CKN->QN (FR)	(RN * !SE)	0.07399	0.23477	0.61839
	RN->QN (FR)	(CKN * D * SE * SI)	0.05231	0.19876	0.55773
	RN->QN (FR)	(CKN * D * SE * !SI)	0.05187	0.19769	0.55613
	RN->QN (FR)	(CKN * D * !SE * SI)	0.05231	0.19877	0.55774
	RN->QN (FR)	(CKN * D * !SE * !SI)	0.05231	0.19877	0.55774
	RN->QN (FR)	(CKN * !D * SE * SI)	0.05231	0.19876	0.55773
	RN->QN (FR)	(CKN * !D * SE * !SI)	0.05187	0.19769	0.55613
	RN->QN (FR)	(CKN * !D * !SE * SI)	0.05187	0.19769	0.55614
	RN->QN (FR)	(CKN * !D * !SE * !SI)	0.05187	0.19769	0.55614
	RN->QN (FR)	(!CKN * D * SE * SI)	0.05705	0.20778	0.56961
	RN->QN (FR)	(!CKN * D * SE * !SI)	0.05706	0.20778	0.56965
	RN->QN (FR)	(!CKN * D * !SE * SI)	0.05705	0.20778	0.56959
	RN->QN (FR)	(!CKN * D * !SE * !SI)	0.05705	0.20778	0.56959
	RN->QN (FR)	(!CKN * !D * SE * SI)	0.05705	0.20778	0.56961
	RN->QN (FR)	(!CKN * !D * SE * !SI)	0.05706	0.20778	0.56965
	RN->QN (FR)	(!CKN * !D * !SE * SI)	0.05706	0.20778	0.56964
	RN->QN (FR)	(!CKN * !D * !SE * !SI)	0.05706	0.20778	0.56964

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX1H7R	CKN->QN (FF)	(RN * SE)	0.11306	0.26507	0.58823
	CKN->QN (FF)	(RN * !SE)	0.11300	0.26508	0.58831

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNRX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7R	**hold**	**CKN (F)**	-0.06044	0.01245	0.11106
	setup	**CKN (F)**	-0.06681	0.04239	0.14819

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7R	**hold**	**CKN (F)**	-0.13283	-0.04769	0.00935
	setup	**CKN (F)**	0.02793	0.10339	0.22034

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7R	**recovery**	**CKN (F)**	-0.11344	-0.00653	0.06907
	removal	**CKN (F)**	0.02785	0.07828	0.16844

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFNRX1H7R	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7R	hold	CKN (F)	-0.04056	0.01868	0.11415
	setup	CKN (F)	0.04243	0.09749	0.15277

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7R	hold	CKN (F)	-0.09031	-0.00208	0.09450
	setup	CKN (F)	0.01805	0.09295	0.21250

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7R	hold	CKN (F)	-0.07195	0.00491	0.10540
	setup	CKN (F)	-0.06188	0.05166	0.16246

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX1H7R	hold	CKN (F)	-0.13997	-0.05280	0.00319
	setup	CKN (F)	0.03505	0.11124	0.23231

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX1H7R	CKN	(RN * SE)	0.00257	0.00267	0.00296
	CKN	(RN * SE)	-0.00002	-0.00001	0.00000
	CKN	(RN * SE)	0.00003	0.00003	0.00005
	CKN	(RN * SE)	0.00226	0.00235	0.00264
	CKN	(RN * !SE)	0.00257	0.00267	0.00296
	CKN	(RN * !SE)	-0.00002	-0.00001	0.00000
	CKN	(RN * !SE)	0.00000	0.00003	0.00005
	CKN	(RN * !SE)	0.00226	0.00235	0.00264

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNRX1H7R	CKN	(RN * SE)	0.00221	0.00231	0.00256
	CKN	(RN * SE)	0.00000	0.00001	0.00002
	CKN	(RN * SE)	-0.00004	-0.00003	-0.00002
	CKN	(RN * SE)	0.00196	0.00206	0.00231
	CKN	(RN * !SE)	0.00220	0.00231	0.00257
	CKN	(RN * !SE)	0.00000	0.00001	0.00003
	CKN	(RN * !SE)	-0.00003	-0.00003	0.00000
	CKN	(RN * !SE)	0.00195	0.00206	0.00231
	RN	(CKN * D * SE * SI)	0.00172	0.00181	0.00210
	RN	(CKN * D * SE * SI)	0.00002	0.00003	0.00003
	RN	(CKN * D * SE * SI)	-0.00006	-0.00003	-0.00001
	RN	(CKN * D * SE * SI)	0.00146	0.00156	0.00185
	RN	(CKN * D * SE * !SI)	0.00170	0.00180	0.00208
	RN	(CKN * D * SE * !SI)	0.00002	0.00002	0.00003
	RN	(CKN * D * SE * !SI)	-0.00003	-0.00003	-0.00003
	RN	(CKN * D * SE * !SI)	0.00145	0.00154	0.00182
	RN	(CKN * D * !SE * SI)	0.00172	0.00181	0.00210
	RN	(CKN * D * !SE * SI)	0.00002	0.00003	0.00004
	RN	(CKN * D * !SE * SI)	-0.00006	-0.00003	-0.00002
	RN	(CKN * D * !SE * SI)	0.00146	0.00156	0.00185
	RN	(CKN * D * !SE * !SI)	0.00172	0.00181	0.00210
	RN	(CKN * D * !SE * !SI)	0.00002	0.00003	0.00004
	RN	(CKN * D * !SE * !SI)	-0.00006	-0.00003	-0.00002
	RN	(CKN * D * !SE * !SI)	0.00146	0.00156	0.00185
	RN	(CKN * !D * SE * SI)	0.00172	0.00181	0.00210
	RN	(CKN * !D * SE * SI)	0.00002	0.00003	0.00003
	RN	(CKN * !D * SE * SI)	-0.00006	-0.00003	-0.00001
	RN	(CKN * !D * SE * SI)	0.00146	0.00156	0.00186
	RN	(CKN * !D * SE * !SI)	0.00170	0.00180	0.00208
	RN	(CKN * !D * SE * !SI)	0.00002	0.00002	0.00003
	RN	(CKN * !D * SE * !SI)	-0.00003	-0.00003	-0.00003
	RN	(CKN * !D * SE * !SI)	0.00145	0.00154	0.00182
	RN	(CKN * !D * !SE * SI)	0.00171	0.00180	0.00209
	RN	(CKN * !D * !SE * SI)	0.00000	0.00002	0.00004
	RN	(CKN * !D * !SE * SI)	-0.00003	-0.00003	-0.00003
	RN	(CKN * !D * !SE * SI)	0.00145	0.00154	0.00182
	RN	(CKN * !D * !SE * !SI)	0.00171	0.00180	0.00209
	RN	(CKN * !D * !SE * !SI)	0.00000	0.00002	0.00004
	RN	(CKN * !D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	RN	(CKN * !D * !SE * !SI)	0.00145	0.00154	0.00182
	RN	(!CKN * D * SE * SI)	0.00234	0.00244	0.00271
	RN	(!CKN * D * SE * SI)	0.00001	0.00001	0.00003
	RN	(!CKN * D * SE * SI)	-0.00002	-0.00000	0.00002
	RN	(!CKN * D * SE * SI)	0.00203	0.00213	0.00241
	RN	(!CKN * D * SE * !SI)	0.00230	0.00241	0.00268
	RN	(!CKN * D * SE * !SI)	-0.00001	0.00001	0.00003
	RN	(!CKN * D * SE * !SI)	-0.00002	-0.00000	0.00001
	RN	(!CKN * D * SE * !SI)	0.00201	0.00210	0.00238
	RN	(!CKN * D * !SE * SI)	0.00234	0.00244	0.00271
	RN	(!CKN * D * !SE * SI)	-0.00001	0.00001	0.00003
	RN	(!CKN * D * !SE * SI)	-0.00002	-0.00000	0.00000
	RN	(!CKN * D * !SE * SI)	0.00205	0.00213	0.00241
	RN	(!CKN * D * !SE * !SI)	0.00234	0.00244	0.00271
	RN	(!CKN * D * !SE * !SI)	-0.00001	0.00001	0.00003
	RN	(!CKN * D * !SE * !SI)	-0.00002	-0.00000	0.00000
	RN	(!CKN * D * !SE * !SI)	0.00205	0.00213	0.00241
	RN	(!CKN * !D * SE * SI)	0.00234	0.00244	0.00271
	RN	(!CKN * !D * SE * SI)	0.00001	0.00001	0.00003
	RN	(!CKN * !D * SE * SI)	-0.00002	-0.00000	0.00002
	RN	(!CKN * !D * SE * SI)	0.00203	0.00213	0.00241
	RN	(!CKN * !D * SE * !SI)	0.00230	0.00241	0.00268
	RN	(!CKN * !D * SE * !SI)	-0.00001	0.00001	0.00003
	RN	(!CKN * !D * SE * !SI)	-0.00002	-0.00000	0.00001
	RN	(!CKN * !D * SE * !SI)	0.00201	0.00210	0.00238
	RN	(!CKN * !D * !SE * SI)	0.00230	0.00241	0.00268
	RN	(!CKN * !D * !SE * SI)	-0.00001	0.00001	0.00003
	RN	(!CKN * !D * !SE * SI)	-0.00002	-0.00000	0.00001
	RN	(!CKN * !D * !SE * SI)	0.00201	0.00210	0.00238
	RN	(!CKN * !D * !SE * !SI)	0.00230	0.00241	0.00268
	RN	(!CKN * !D * !SE * !SI)	-0.00001	0.00001	0.00003
	RN	(!CKN * !D * !SE * !SI)	-0.00002	-0.00000	0.00001
	RN	(!CKN * !D * !SE * !SI)	0.00201	0.00210	0.00238

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNRX1H7R	CKN	(RN * SE)	0.00220	0.00231	0.00257
	CKN	(RN * SE)	0.00000	0.00001	0.00004
	CKN	(RN * SE)	-0.00003	-0.00003	-0.00002
	CKN	(RN * SE)	0.00196	0.00206	0.00233
	CKN	(RN * !SE)	0.00219	0.00231	0.00257
	CKN	(RN * !SE)	0.00000	0.00001	0.00004
	CKN	(RN * !SE)	-0.00003	-0.00003	-0.00002
	CKN	(RN * !SE)	0.00198	0.00206	0.00232
	RN	(CKN * D * SE * SI)	0.00170	0.00181	0.00210
	RN	(CKN * D * SE * SI)	-0.00000	0.00003	0.00005
	RN	(CKN * D * SE * SI)	-0.00006	-0.00003	-0.00000
	RN	(CKN * D * SE * SI)	0.00144	0.00156	0.00185
	RN	(CKN * D * SE * !SI)	0.00170	0.00180	0.00209
	RN	(CKN * D * SE * !SI)	-0.00001	0.00002	0.00005
	RN	(CKN * D * SE * !SI)	-0.00004	-0.00003	0.00000
	RN	(CKN * D * SE * !SI)	0.00144	0.00154	0.00185
	RN	(CKN * D * !SE * SI)	0.00170	0.00181	0.00210
	RN	(CKN * D * !SE * SI)	-0.00000	0.00003	0.00004
	RN	(CKN * D * !SE * SI)	-0.00006	-0.00003	0.00026
	RN	(CKN * D * !SE * SI)	0.00122	0.00155	0.00186
	RN	(CKN * D * !SE * !SI)	0.00170	0.00181	0.00210
	RN	(CKN * D * !SE * !SI)	-0.00000	0.00003	0.00004
	RN	(CKN * D * !SE * !SI)	-0.00006	-0.00003	0.00025
	RN	(CKN * D * !SE * !SI)	0.00123	0.00155	0.00186
	RN	(CKN * !D * SE * SI)	0.00171	0.00181	0.00210
	RN	(CKN * !D * SE * SI)	-0.00001	0.00003	0.00005
	RN	(CKN * !D * SE * SI)	-0.00006	-0.00003	-0.00000
	RN	(CKN * !D * SE * SI)	0.00144	0.00156	0.00185
	RN	(CKN * !D * SE * !SI)	0.00170	0.00180	0.00209
	RN	(CKN * !D * SE * !SI)	-0.00001	0.00002	0.00005
	RN	(CKN * !D * SE * !SI)	-0.00004	-0.00003	0.00000
	RN	(CKN * !D * SE * !SI)	0.00144	0.00154	0.00185
	RN	(CKN * !D * !SE * SI)	0.00171	0.00180	0.00209
	RN	(CKN * !D * !SE * SI)	-0.00001	0.00002	0.00005
	RN	(CKN * !D * !SE * SI)	-0.00006	-0.00003	0.00000
	RN	(CKN * !D * !SE * SI)	0.00144	0.00154	0.00185
	RN	(CKN * !D * !SE * !SI)	0.00171	0.00180	0.00209
	RN	(CKN * !D * !SE * !SI)	-0.00001	0.00002	0.00005
	RN	(CKN * !D * !SE * !SI)	-0.00006	-0.00003	0.00000
	RN	(CKN * !D * !SE * !SI)	0.00144	0.00154	0.00185
	RN	(!CKN * D * SE * SI)	0.00233	0.00244	0.00271
	RN	(!CKN * D * SE * SI)	-0.00003	0.00001	0.00004
	RN	(!CKN * D * SE * SI)	-0.00003	-0.00000	0.00003
	RN	(!CKN * D * SE * SI)	0.00203	0.00213	0.00241
	RN	(!CKN * D * SE * !SI)	0.00230	0.00241	0.00268
	RN	(!CKN * D * SE * !SI)	-0.00002	0.00001	0.00004
	RN	(!CKN * D * SE * !SI)	-0.00003	-0.00000	0.00003
	RN	(!CKN * D * SE * !SI)	0.00200	0.00210	0.00239
	RN	(!CKN * D * !SE * SI)	0.00233	0.00244	0.00271
	RN	(!CKN * D * !SE * SI)	-0.00003	0.00001	0.00004
	RN	(!CKN * D * !SE * SI)	-0.00002	-0.00000	0.00003
	RN	(!CKN * D * !SE * SI)	0.00203	0.00213	0.00242
	RN	(!CKN * D * !SE * !SI)	0.00233	0.00244	0.00271
	RN	(!CKN * D * !SE * !SI)	-0.00003	0.00001	0.00004
	RN	(!CKN * D * !SE * !SI)	-0.00005	-0.00000	0.00001
	RN	(!CKN * D * !SE * !SI)	0.00204	0.00214	0.00242
	RN	(!CKN * !D * SE * SI)	0.00233	0.00244	0.00271
	RN	(!CKN * !D * SE * SI)	-0.00003	0.00001	0.00004
	RN	(!CKN * !D * SE * SI)	-0.00003	-0.00000	0.00003
	RN	(!CKN * !D * SE * SI)	0.00203	0.00213	0.00241
	RN	(!CKN * !D * SE * !SI)	0.00230	0.00241	0.00268
	RN	(!CKN * !D * SE * !SI)	-0.00002	0.00001	0.00004
	RN	(!CKN * !D * SE * !SI)	-0.00002	-0.00000	0.00003
	RN	(!CKN * !D * SE * !SI)	0.00200	0.00210	0.00239
	RN	(!CKN * !D * !SE * SI)	0.00230	0.00241	0.00268
	RN	(!CKN * !D * !SE * SI)	-0.00003	0.00001	0.00003
	RN	(!CKN * !D * !SE * SI)	-0.00003	-0.00000	0.00002
	RN	(!CKN * !D * !SE * SI)	0.00200	0.00210	0.00239
	RN	(!CKN * !D * !SE * !SI)	0.00230	0.00241	0.00268
	RN	(!CKN * !D * !SE * !SI)	-0.00003	0.00001	0.00003
	RN	(!CKN * !D * !SE * !SI)	-0.00003	-0.00000	0.00001
	RN	(!CKN * !D * !SE * !SI)	0.00202	0.00210	0.00238

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX1H7R	CKN	(RN * SE)	0.00257	0.00267	0.00296
	CKN	(RN * SE)	-0.00002	-0.00001	0.00000
	CKN	(RN * SE)	0.00002	0.00003	0.00004
	CKN	(RN * SE)	0.00226	0.00235	0.00264
	CKN	(RN * !SE)	0.00257	0.00267	0.00296
	CKN	(RN * !SE)	-0.00002	-0.00001	0.00000
	CKN	(RN * !SE)	0.00002	0.00003	0.00004
	CKN	(RN * !SE)	0.00226	0.00235	0.00264

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7R	0.00278	0.00292	0.00341
	-0.00001	-0.00000	0.00000
	-0.00005	-0.00003	-0.00002
	0.00336	0.00350	0.00399

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7R	0.00365	0.00376	0.00415
	0.00000	0.00000	0.00001
	0.00002	0.00004	0.00005
	0.00305	0.00315	0.00355

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7R	0.00134	0.00139	0.00162
	0.00012	0.00013	0.00014
	-0.00013	-0.00012	-0.00012
	0.00232	0.00238	0.00260

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7R	0.00248	0.00254	0.00275
	-0.00014	-0.00013	-0.00012
	0.00012	0.00013	0.00013
	0.00147	0.00153	0.00175

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7R	0.00095	0.00109	0.00159
	0.00000	0.00000	0.00000
	-0.00001	0.00001	0.00002
	0.00145	0.00159	0.00209

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7R	0.00081	0.00096	0.00150
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00003
	0.00013	0.00028	0.00082

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7R	0.00233	0.00246	0.00293
	0.00000	0.00000	0.00000
	0.00010	0.00011	0.00012
	0.00290	0.00302	0.00349

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7R	0.00309	0.00334	0.00424
	0.00000	0.00000	0.00000
	0.00014	0.00016	0.00016
	0.00140	0.00165	0.00255

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7R	0.00115	0.00120	0.00138
	0.00012	0.00012	0.00013
	-0.00012	-0.00012	-0.00011
	0.00215	0.00220	0.00239

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX1H7R	0.00266	0.00271	0.00288
	-0.00013	-0.00012	-0.00012
	0.00011	0.00012	0.00012
	0.00163	0.00168	0.00186

SDFFNRX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q =!RN ?0 : falling (CKN) ? (SE&SI! !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	RN	SE	SI	Q	QN
F	0	1	0	x	0	1
F	x	1	1	0	0	1
F	x	1	1	1	1	0
F	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNRX2H7R	10.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	RN	SE	SI	Q	QN
SDFFNRX2H7R	0.00081	0.00073	0.00084	0.00176	0.00081	0.08106	0.08124

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNRX2H7R	0.00000	1.43297	1.85306

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX2H7R	CKN->Q (FR)	(RN * SE)	0.14494	0.29860	0.67797
	CKN->Q (FR)	(RN * !SE)	0.14494	0.29861	0.67803

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX2H7R	CKN->Q (FF)	(RN * SE)	0.10177	0.23337	0.54738
	CKN->Q (FF)	(RN * !SE)	0.10185	0.23340	0.54741
	RN->Q (FF)	(CKN * D * SE * SI)	0.07655	0.19821	0.49012
	RN->Q (FF)	(CKN * D * SE * !SI)	0.07593	0.19719	0.48827
	RN->Q (FF)	(CKN * D * !SE * SI)	0.07655	0.19821	0.49012
	RN->Q (FF)	(CKN * D * !SE * !SI)	0.07655	0.19821	0.49012
	RN->Q (FF)	(CKN * !D * SE * SI)	0.07655	0.19821	0.49012
	RN->Q (FF)	(CKN * !D * SE * !SI)	0.07593	0.19720	0.48827
	RN->Q (FF)	(CKN * !D * !SE * SI)	0.07593	0.19719	0.48827
	RN->Q (FF)	(CKN * !D * !SE * !SI)	0.07593	0.19719	0.48827
	RN->Q (FF)	(!CKN * D * SE * SI)	0.08350	0.20548	0.49804
	RN->Q (FF)	(!CKN * D * SE * !SI)	0.08350	0.20548	0.49804
	RN->Q (FF)	(!CKN * D * !SE * SI)	0.08350	0.20548	0.49804
	RN->Q (FF)	(!CKN * D * !SE * !SI)	0.08350	0.20548	0.49804
	RN->Q (FF)	(!CKN * !D * SE * SI)	0.08350	0.20548	0.49804
	RN->Q (FF)	(!CKN * !D * SE * !SI)	0.08350	0.20548	0.49804
	RN->Q (FF)	(!CKN * !D * !SE * SI)	0.08350	0.20548	0.49804
	RN->Q (FF)	(!CKN * !D * !SE * !SI)	0.08350	0.20548	0.49804

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX2H7R	CKN->QN (FR)	(RN * SE)	0.07560	0.23789	0.62400
	CKN->QN (FR)	(RN * !SE)	0.07568	0.23792	0.62396
	RN->QN (FR)	(CKN * D * SE * SI)	0.05306	0.20103	0.56263
	RN->QN (FR)	(CKN * D * SE * !SI)	0.05268	0.20008	0.56028
	RN->QN (FR)	(CKN * D * !SE * SI)	0.05306	0.20103	0.56273
	RN->QN (FR)	(CKN * D * !SE * !SI)	0.05306	0.20103	0.56261
	RN->QN (FR)	(CKN * !D * SE * SI)	0.05306	0.20102	0.56213
	RN->QN (FR)	(CKN * !D * SE * !SI)	0.05268	0.20008	0.56030
	RN->QN (FR)	(CKN * !D * !SE * SI)	0.05268	0.20008	0.56026
	RN->QN (FR)	(CKN * !D * !SE * !SI)	0.05268	0.20008	0.56032
	RN->QN (FR)	(!CKN * D * SE * SI)	0.05764	0.20936	0.57276
	RN->QN (FR)	(!CKN * D * SE * !SI)	0.05764	0.20936	0.57276
	RN->QN (FR)	(!CKN * D * !SE * SI)	0.05764	0.20936	0.57276
	RN->QN (FR)	(!CKN * D * !SE * !SI)	0.05764	0.20936	0.57276
	RN->QN (FR)	(!CKN * !D * SE * SI)	0.05764	0.20936	0.57276
	RN->QN (FR)	(!CKN * !D * SE * !SI)	0.05764	0.20936	0.57276
	RN->QN (FR)	(!CKN * !D * !SE * SI)	0.05764	0.20936	0.57276
	RN->QN (FR)	(!CKN * !D * !SE * !SI)	0.05764	0.20936	0.57276

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX2H7R	CKN->QN (FF)	(RN * SE)	0.11341	0.26597	0.59179
	CKN->QN (FF)	(RN * !SE)	0.11340	0.26598	0.59174

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNRX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7R	**hold**	**CKN (F)**	-0.05704	0.01520	0.11474
	setup	**CKN (F)**	-0.07771	0.03462	0.14217

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7R	**hold**	**CKN (F)**	-0.13266	-0.04498	0.01200
	setup	**CKN (F)**	0.02325	0.10206	0.22016

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7R	**recovery**	**CKN (F)**	-0.12044	-0.01494	0.06112
	removal	**CKN (F)**	0.02399	0.07652	0.16846

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFNRX2H7R	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7R	hold	CKN (F)	-0.03388	0.02172	0.11495
	setup	CKN (F)	0.03937	0.09679	0.15249

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7R	hold	CKN (F)	-0.08927	-0.00049	0.10081
	setup	CKN (F)	0.01406	0.09206	0.21030

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7R	hold	CKN (F)	-0.06641	0.00783	0.10890
	setup	CKN (F)	-0.07043	0.04449	0.15601

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX2H7R	hold	CKN (F)	-0.13885	-0.05054	0.00648
	setup	CKN (F)	0.03158	0.11026	0.23204

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX2H7R	CKN	(RN * SE)	0.00272	0.00282	0.00312
	CKN	(RN * SE)	-0.00002	-0.00001	0.00000
	CKN	(RN * SE)	0.00002	0.00003	0.00003
	CKN	(RN * SE)	0.00238	0.00248	0.00278
	CKN	(RN * !SE)	0.00272	0.00282	0.00312
	CKN	(RN * !SE)	-0.00003	-0.00001	-0.00001
	CKN	(RN * !SE)	0.00001	0.00003	0.00003
	CKN	(RN * !SE)	0.00238	0.00248	0.00278

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNRX2H7R	CKN	(RN * SE)	0.00230	0.00242	0.00268
	CKN	(RN * SE)	0.00000	0.00001	0.00003
	CKN	(RN * SE)	-0.00003	-0.00003	-0.00002
	CKN	(RN * SE)	0.00210	0.00220	0.00246
	CKN	(RN * !SE)	0.00230	0.00242	0.00268
	CKN	(RN * !SE)	0.00001	0.00001	0.00003
	CKN	(RN * !SE)	-0.00003	-0.00003	-0.00001
	CKN	(RN * !SE)	0.00210	0.00220	0.00247
	RN	(CKN * D * SE * SI)	0.00181	0.00191	0.00220
	RN	(CKN * D * SE * SI)	0.00002	0.00003	0.00005
	RN	(CKN * D * SE * SI)	-0.00006	-0.00004	-0.00001
	RN	(CKN * D * SE * SI)	0.00159	0.00169	0.00199
	RN	(CKN * D * SE * !SI)	0.00178	0.00190	0.00218
	RN	(CKN * D * SE * !SI)	-0.00000	0.00002	0.00005
	RN	(CKN * D * SE * !SI)	-0.00006	-0.00003	-0.00000
	RN	(CKN * D * SE * !SI)	0.00155	0.00167	0.00196
	RN	(CKN * D * !SE * SI)	0.00181	0.00191	0.00220
	RN	(CKN * D * !SE * SI)	0.00002	0.00003	0.00004
	RN	(CKN * D * !SE * SI)	-0.00008	-0.00003	-0.00000
	RN	(CKN * D * !SE * SI)	0.00159	0.00169	0.00199
	RN	(CKN * D * !SE * !SI)	0.00181	0.00191	0.00220
	RN	(CKN * D * !SE * !SI)	0.00002	0.00003	0.00004
	RN	(CKN * D * !SE * !SI)	-0.00008	-0.00004	-0.00002
	RN	(CKN * D * !SE * !SI)	0.00159	0.00169	0.00199
	RN	(CKN * !D * SE * SI)	0.00181	0.00191	0.00220
	RN	(CKN * !D * SE * SI)	0.00002	0.00003	0.00003
	RN	(CKN * !D * SE * SI)	-0.00006	-0.00004	-0.00002
	RN	(CKN * !D * SE * SI)	0.00159	0.00169	0.00199
	RN	(CKN * !D * SE * !SI)	0.00178	0.00190	0.00218
	RN	(CKN * !D * SE * !SI)	-0.00000	0.00002	0.00005
	RN	(CKN * !D * SE * !SI)	-0.00006	-0.00003	-0.00000
	RN	(CKN * !D * SE * !SI)	0.00155	0.00167	0.00196
	RN	(CKN * !D * !SE * SI)	0.00179	0.00190	0.00218
	RN	(CKN * !D * !SE * SI)	-0.00000	0.00002	0.00006
	RN	(CKN * !D * !SE * SI)	-0.00006	-0.00003	-0.00001
	RN	(CKN * !D * !SE * SI)	0.00155	0.00167	0.00196
	RN	(CKN * !D * !SE * !SI)	0.00179	0.00190	0.00218
	RN	(CKN * !D * !SE * !SI)	-0.00000	0.00002	0.00006
	RN	(CKN * !D * !SE * !SI)	-0.00006	-0.00003	-0.00001
	RN	(CKN * !D * !SE * !SI)	0.00155	0.00167	0.00196
	RN	(!CKN * D * SE * SI)	0.00242	0.00253	0.00279
	RN	(!CKN * D * SE * SI)	0.00001	0.00001	0.00003
	RN	(!CKN * D * SE * SI)	-0.00002	-0.00001	0.00002
	RN	(!CKN * D * SE * SI)	0.00216	0.00226	0.00253
	RN	(!CKN * D * SE * !SI)	0.00240	0.00250	0.00276
	RN	(!CKN * D * SE * !SI)	-0.00001	0.00001	0.00002
	RN	(!CKN * D * SE * !SI)	-0.00003	-0.00001	0.00002
	RN	(!CKN * D * SE * !SI)	0.00212	0.00223	0.00249
	RN	(!CKN * D * !SE * SI)	0.00242	0.00253	0.00279
	RN	(!CKN * D * !SE * SI)	-0.00001	0.00001	0.00003
	RN	(!CKN * D * !SE * SI)	-0.00004	-0.00001	0.00002
	RN	(!CKN * D * !SE * SI)	0.00217	0.00226	0.00253
	RN	(!CKN * D * !SE * !SI)	0.00242	0.00253	0.00279
	RN	(!CKN * D * !SE * !SI)	-0.00001	0.00001	0.00003
	RN	(!CKN * D * !SE * !SI)	-0.00004	-0.00001	0.00002
	RN	(!CKN * D * !SE * !SI)	0.00217	0.00226	0.00253
	RN	(!CKN * !D * SE * SI)	0.00242	0.00253	0.00279
	RN	(!CKN * !D * SE * SI)	0.00001	0.00001	0.00003
	RN	(!CKN * !D * SE * SI)	-0.00002	-0.00001	0.00002
	RN	(!CKN * !D * SE * SI)	0.00216	0.00226	0.00253
	RN	(!CKN * !D * SE * !SI)	0.00240	0.00250	0.00276
	RN	(!CKN * !D * SE * !SI)	-0.00001	0.00001	0.00002
	RN	(!CKN * !D * SE * !SI)	-0.00003	-0.00001	0.00002
	RN	(!CKN * !D * SE * !SI)	0.00212	0.00223	0.00249
	RN	(!CKN * !D * !SE * SI)	0.00239	0.00250	0.00276
	RN	(!CKN * !D * !SE * SI)	-0.00001	0.00001	0.00004
	RN	(!CKN * !D * !SE * SI)	-0.00003	-0.00001	0.00001
	RN	(!CKN * !D * !SE * SI)	0.00213	0.00223	0.00250
	RN	(!CKN * !D * !SE * !SI)	0.00239	0.00250	0.00276
	RN	(!CKN * !D * !SE * !SI)	-0.00001	0.00001	0.00004
	RN	(!CKN * !D * !SE * !SI)	-0.00003	-0.00001	0.00001
	RN	(!CKN * !D * !SE * !SI)	0.00213	0.00223	0.00250

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNRX2H7R	**CKN**	**(RN * SE)**	0.00230	0.00243	0.00269
	CKN	**(RN * SE)**	0.00000	0.00001	0.00004
	CKN	**(RN * SE)**	-0.00003	-0.00003	-0.00002
	CKN	**(RN * SE)**	0.00210	0.00220	0.00248
	CKN	**(RN * !SE)**	0.00230	0.00242	0.00269
	CKN	**(RN * !SE)**	0.00000	0.00001	0.00005
	CKN	**(RN * !SE)**	-0.00003	-0.00003	0.00000
	CKN	**(RN * !SE)**	0.00210	0.00220	0.00248
	RN	**(CKN * D * SE * SI)**	0.00179	0.00191	0.00220
	RN	**(CKN * D * SE * SI)**	0.00000	0.00003	0.00006
	RN	**(CKN * D * SE * SI)**	-0.00007	-0.00003	-0.00001
	RN	**(CKN * D * SE * SI)**	0.00157	0.00169	0.00200
	RN	**(CKN * D * SE * !SI)**	0.00178	0.00190	0.00218
	RN	**(CKN * D * SE * !SI)**	0.00001	0.00002	0.00006
	RN	**(CKN * D * SE * !SI)**	-0.00007	-0.00003	-0.00001
	RN	**(CKN * D * SE * !SI)**	0.00157	0.00167	0.00197
	RN	**(CKN * D * !SE * SI)**	0.00180	0.00191	0.00221
	RN	**(CKN * D * !SE * SI)**	0.00000	0.00003	0.00005
	RN	**(CKN * D * !SE * SI)**	-0.00008	-0.00004	-0.00001
	RN	**(CKN * D * !SE * SI)**	0.00157	0.00169	0.00201
	RN	**(CKN * D * !SE * !SI)**	0.00180	0.00191	0.00220
	RN	**(CKN * D * !SE * !SI)**	0.00000	0.00003	0.00005
	RN	**(CKN * D * !SE * !SI)**	-0.00008	-0.00004	-0.00001
	RN	**(CKN * D * !SE * !SI)**	0.00157	0.00169	0.00200
	RN	**(CKN * !D * SE * SI)**	0.00179	0.00191	0.00219
	RN	**(CKN * !D * SE * SI)**	0.00000	0.00003	0.00006
	RN	**(CKN * !D * SE * SI)**	-0.00007	-0.00003	-0.00001
	RN	**(CKN * !D * SE * SI)**	0.00157	0.00169	0.00198
	RN	**(CKN * !D * SE * !SI)**	0.00178	0.00190	0.00217
	RN	**(CKN * !D * SE * !SI)**	0.00002	0.00002	0.00006
	RN	**(CKN * !D * SE * !SI)**	-0.00007	-0.00003	-0.00001
	RN	**(CKN * !D * SE * !SI)**	0.00157	0.00167	0.00195
	RN	**(CKN * !D * !SE * SI)**	0.00178	0.00190	0.00218
	RN	**(CKN * !D * !SE * SI)**	-0.00001	0.00002	0.00006
	RN	**(CKN * !D * !SE * SI)**	-0.00007	-0.00003	0.00000
	RN	**(CKN * !D * !SE * SI)**	0.00158	0.00167	0.00195
	RN	**(CKN * !D * !SE * !SI)**	0.00178	0.00190	0.00218
	RN	**(CKN * !D * !SE * !SI)**	-0.00001	0.00002	0.00006
	RN	**(CKN * !D * !SE * !SI)**	-0.00007	-0.00003	0.00000
	RN	**(CKN * !D * !SE * !SI)**	0.00158	0.00167	0.00196
	RN	**(!CKN * D * SE * SI)**	0.00243	0.00253	0.00279
	RN	**(!CKN * D * SE * SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * D * SE * SI)**	-0.00005	-0.00001	0.00003
	RN	**(!CKN * D * SE * SI)**	0.00217	0.00227	0.00253
	RN	**(!CKN * D * SE * !SI)**	0.00238	0.00250	0.00276
	RN	**(!CKN * D * SE * !SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * D * SE * !SI)**	-0.00002	-0.00001	0.00003
	RN	**(!CKN * D * SE * !SI)**	0.00212	0.00223	0.00250
	RN	**(!CKN * D * !SE * SI)**	0.00242	0.00253	0.00279
	RN	**(!CKN * D * !SE * SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * D * !SE * SI)**	-0.00004	-0.00001	0.00002
	RN	**(!CKN * D * !SE * SI)**	0.00216	0.00226	0.00253
	RN	**(!CKN * D * !SE * !SI)**	0.00242	0.00253	0.00279
	RN	**(!CKN * D * !SE * !SI)**	-0.00001	0.00002	0.00005
	RN	**(!CKN * D * !SE * !SI)**	-0.00004	-0.00001	0.00002
	RN	**(!CKN * D * !SE * !SI)**	0.00216	0.00226	0.00253
	RN	**(!CKN * !D * SE * SI)**	0.00243	0.00253	0.00279
	RN	**(!CKN * !D * SE * SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * !D * SE * SI)**	-0.00005	-0.00001	0.00003
	RN	**(!CKN * !D * SE * SI)**	0.00217	0.00227	0.00253
	RN	**(!CKN * !D * SE * !SI)**	0.00238	0.00250	0.00276
	RN	**(!CKN * !D * SE * !SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * !D * SE * !SI)**	-0.00002	-0.00001	0.00003
	RN	**(!CKN * !D * SE * !SI)**	0.00212	0.00223	0.00250
	RN	**(!CKN * !D * !SE * SI)**	0.00240	0.00250	0.00276
	RN	**(!CKN * !D * !SE * SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * !D * !SE * SI)**	-0.00004	-0.00001	-0.00000
	RN	**(!CKN * !D * !SE * SI)**	0.00213	0.00223	0.00250
	RN	**(!CKN * !D * !SE * !SI)**	0.00241	0.00250	0.00276
	RN	**(!CKN * !D * !SE * !SI)**	-0.00002	0.00001	0.00002
	RN	**(!CKN * !D * !SE * !SI)**	-0.00004	-0.00001	-0.00000
	RN	**(!CKN * !D * !SE * !SI)**	0.00213	0.00223	0.00250

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX2H7R	CKN	(RN * SE)	0.00272	0.00282	0.00311
	CKN	(RN * SE)	-0.00002	-0.00001	0.00000
	CKN	(RN * SE)	0.00003	0.00003	0.00003
	CKN	(RN * SE)	0.00238	0.00248	0.00277
	CKN	(RN * !SE)	0.00272	0.00282	0.00311
	CKN	(RN * !SE)	-0.00002	-0.00001	0.00000
	CKN	(RN * !SE)	0.00001	0.00003	0.00003
	CKN	(RN * !SE)	0.00238	0.00248	0.00277

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7R	0.00284	0.00297	0.00344
	-0.00003	-0.00001	-0.00000
	-0.00004	-0.00003	-0.00002
	0.00339	0.00353	0.00400

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7R	0.00374	0.00385	0.00424
	0.00000	0.00001	0.00003
	0.00002	0.00003	0.00004
	0.00317	0.00327	0.00366

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7R	0.00132	0.00138	0.00161
	0.00012	0.00012	0.00012
	-0.00012	-0.00012	-0.00011
	0.00229	0.00235	0.00258

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7R	0.00242	0.00248	0.00269
	-0.00012	-0.00012	-0.00012
	0.00011	0.00012	0.00012
	0.00142	0.00148	0.00170

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7R	0.00100	0.00113	0.00163
	0.00000	0.00000	0.00000
	-0.00000	0.00001	0.00002
	0.00147	0.00161	0.00210

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7R	0.00081	0.00095	0.00148
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00003
	0.00013	0.00028	0.00081

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7R	0.00228	0.00242	0.00288
	0.00000	0.00000	0.00000
	0.00009	0.00010	0.00012
	0.00285	0.00298	0.00345

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7R	0.00305	0.00330	0.00419
	0.00000	0.00000	0.00000
	0.00014	0.00015	0.00016
	0.00135	0.00160	0.00251

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7R	0.00112	0.00118	0.00137
	0.00011	0.00012	0.00012
	-0.00011	-0.00011	-0.00010
	0.00212	0.00217	0.00236

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX2H7R	0.00261	0.00266	0.00283
	-0.00012	-0.00012	-0.00011
	0.00010	0.00011	0.00011
	0.00160	0.00164	0.00183

SDFFNRX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q =!RN ?0 : falling (CKN) ? (SE&SI! !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	RN	SE	SI	Q	QN
F	0	1	0	x	0	1
F	x	1	1	0	0	1
F	x	1	1	1	1	0
F	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNRX3H7R	11.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	RN	SE	SI	Q	QN
SDFFNRX3H7R	0.00091	0.00080	0.00094	0.00196	0.00080	0.12591	0.12676

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNRX3H7R	0.00000	1.72716	2.20416

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX3H7R	CKN->Q (FR)	(RN * SE)	0.15162	0.30394	0.67958
	CKN->Q (FR)	(RN * !SE)	0.15157	0.30393	0.67950

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX3H7R	CKN->Q (FF)	(RN * SE)	0.10564	0.23799	0.55141
	CKN->Q (FF)	(RN * !SE)	0.10574	0.23808	0.55151
	RN->Q (FF)	(CKN * D * SE * SI)	0.07992	0.20184	0.49307
	RN->Q (FF)	(CKN * D * SE * !SI)	0.07915	0.20075	0.49125
	RN->Q (FF)	(CKN * D * !SE * SI)	0.07992	0.20184	0.49314
	RN->Q (FF)	(CKN * D * !SE * !SI)	0.07992	0.20184	0.49314
	RN->Q (FF)	(CKN * !D * SE * SI)	0.07992	0.20184	0.49307
	RN->Q (FF)	(CKN * !D * SE * !SI)	0.07915	0.20075	0.49126
	RN->Q (FF)	(CKN * !D * !SE * SI)	0.07915	0.20075	0.49126
	RN->Q (FF)	(CKN * !D * !SE * !SI)	0.07915	0.20076	0.49126
	RN->Q (FF)	(!CKN * D * SE * SI)	0.08767	0.21003	0.50159
	RN->Q (FF)	(!CKN * D * SE * !SI)	0.08767	0.21003	0.50159
	RN->Q (FF)	(!CKN * D * !SE * SI)	0.08767	0.21003	0.50159
	RN->Q (FF)	(!CKN * D * !SE * !SI)	0.08767	0.21003	0.50159
	RN->Q (FF)	(!CKN * !D * SE * SI)	0.08767	0.21003	0.50159
	RN->Q (FF)	(!CKN * !D * SE * !SI)	0.08767	0.21003	0.50159
	RN->Q (FF)	(!CKN * !D * !SE * SI)	0.08767	0.21003	0.50159
	RN->Q (FF)	(!CKN * !D * !SE * !SI)	0.08767	0.21003	0.50159

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX3H7R	CKN->QN (FR)	(RN * SE)	0.07519	0.23815	0.62362
	CKN->QN (FR)	(RN * !SE)	0.07527	0.23823	0.62374
	RN->QN (FR)	(CKN * D * SE * SI)	0.05330	0.20089	0.56088
	RN->QN (FR)	(CKN * D * SE * !SI)	0.05285	0.19989	0.55921
	RN->QN (FR)	(CKN * D * !SE * SI)	0.05331	0.20089	0.56088
	RN->QN (FR)	(CKN * D * !SE * !SI)	0.05331	0.20089	0.56088
	RN->QN (FR)	(CKN * !D * SE * SI)	0.05330	0.20089	0.56088
	RN->QN (FR)	(CKN * !D * SE * !SI)	0.05285	0.19989	0.55921
	RN->QN (FR)	(CKN * !D * !SE * SI)	0.05285	0.19989	0.55923
	RN->QN (FR)	(CKN * !D * !SE * !SI)	0.05285	0.19989	0.55923
	RN->QN (FR)	(!CKN * D * SE * SI)	0.05811	0.20976	0.57195
	RN->QN (FR)	(!CKN * D * SE * !SI)	0.05811	0.20976	0.57195
	RN->QN (FR)	(!CKN * D * !SE * SI)	0.05811	0.20976	0.57195
	RN->QN (FR)	(!CKN * D * !SE * !SI)	0.05811	0.20976	0.57195
	RN->QN (FR)	(!CKN * !D * SE * SI)	0.05811	0.20976	0.57195
	RN->QN (FR)	(!CKN * !D * SE * !SI)	0.05811	0.20976	0.57195
	RN->QN (FR)	(!CKN * !D * !SE * SI)	0.05811	0.20976	0.57195
	RN->QN (FR)	(!CKN * !D * !SE * !SI)	0.05811	0.20976	0.57195

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNRX3H7R	CKN->QN (FF)	(RN * SE)	0.11113	0.26558	0.59192
	CKN->QN (FF)	(RN * !SE)	0.11109	0.26556	0.59188

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNRX3H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7R	**hold**	**CKN (F)**	-0.05422	0.01109	0.10396
	setup	**CKN (F)**	-0.06909	0.04068	0.14962

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7R	**hold**	**CKN (F)**	-0.12440	-0.04265	0.00943
	setup	**CKN (F)**	0.02233	0.10001	0.21917

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7R	**recovery**	**CKN (F)**	-0.11376	-0.01396	0.05708
	removal	**CKN (F)**	0.03040	0.07847	0.16267

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFNRX3H7R	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7R	hold	CKN (F)	-0.03374	0.01537	0.10514
	setup	CKN (F)	0.04775	0.10313	0.15755

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7R	hold	CKN (F)	-0.08623	-0.00086	0.09458
	setup	CKN (F)	0.01361	0.09086	0.20837

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7R	hold	CKN (F)	-0.06500	0.00246	0.10043
	setup	CKN (F)	-0.05797	0.05478	0.16906

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNRX3H7R	hold	CKN (F)	-0.14230	-0.05585	-0.00226
	setup	CKN (F)	0.04182	0.12094	0.24525

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX3H7R	CKN	(RN * SE)	0.00317	0.00329	0.00363
	CKN	(RN * SE)	-0.00002	-0.00001	-0.00001
	CKN	(RN * SE)	0.00003	0.00003	0.00004
	CKN	(RN * SE)	0.00279	0.00291	0.00325
	CKN	(RN * !SE)	0.00317	0.00329	0.00364
	CKN	(RN * !SE)	-0.00001	-0.00001	0.00000
	CKN	(RN * !SE)	0.00003	0.00003	0.00004
	CKN	(RN * !SE)	0.00280	0.00291	0.00327

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNRX3H7R	**CKN**	**(RN * SE)**	0.00276	0.00291	0.00323
	CKN	**(RN * SE)**	0.00001	0.00001	0.00003
	CKN	**(RN * SE)**	-0.00004	-0.00003	-0.00002
	CKN	**(RN * SE)**	0.00251	0.00265	0.00300
	CKN	**(RN * !SE)**	0.00278	0.00291	0.00322
	CKN	**(RN * !SE)**	0.00000	0.00001	0.00001
	CKN	**(RN * !SE)**	-0.00003	-0.00003	-0.00003
	CKN	**(RN * !SE)**	0.00252	0.00265	0.00298
	RN	**(CKN * D * SE * SI)**	0.00219	0.00234	0.00270
	RN	**(CKN * D * SE * SI)**	-0.00001	0.00003	0.00005
	RN	**(CKN * D * SE * SI)**	-0.00005	-0.00003	-0.00001
	RN	**(CKN * D * SE * SI)**	0.00190	0.00207	0.00245
	RN	**(CKN * D * SE * !SI)**	0.00217	0.00233	0.00267
	RN	**(CKN * D * SE * !SI)**	-0.00001	0.00002	0.00004
	RN	**(CKN * D * SE * !SI)**	-0.00003	-0.00003	-0.00001
	RN	**(CKN * D * SE * !SI)**	0.00190	0.00205	0.00240
	RN	**(CKN * D * !SE * SI)**	0.00219	0.00234	0.00269
	RN	**(CKN * D * !SE * SI)**	-0.00008	0.00002	0.00008
	RN	**(CKN * D * !SE * SI)**	-0.00229	-0.00006	0.00113
	RN	**(CKN * D * !SE * SI)**	0.00113	0.00209	0.00396
	RN	**(CKN * D * !SE * !SI)**	0.00219	0.00234	0.00269
	RN	**(CKN * D * !SE * !SI)**	-0.00007	0.00002	0.00005
	RN	**(CKN * D * !SE * !SI)**	-0.00226	-0.00007	0.00025
	RN	**(CKN * D * !SE * !SI)**	0.00190	0.00211	0.00392
	RN	**(CKN * !D * SE * SI)**	0.00219	0.00234	0.00269
	RN	**(CKN * !D * SE * SI)**	-0.00001	0.00003	0.00005
	RN	**(CKN * !D * SE * SI)**	-0.00005	-0.00003	-0.00001
	RN	**(CKN * !D * SE * SI)**	0.00190	0.00207	0.00244
	RN	**(CKN * !D * SE * !SI)**	0.00217	0.00233	0.00267
	RN	**(CKN * !D * SE * !SI)**	-0.00001	0.00002	0.00004
	RN	**(CKN * !D * SE * !SI)**	-0.00003	-0.00003	-0.00001
	RN	**(CKN * !D * SE * !SI)**	0.00190	0.00205	0.00240
	RN	**(CKN * !D * !SE * SI)**	0.00218	0.00233	0.00267
	RN	**(CKN * !D * !SE * SI)**	-0.00001	0.00002	0.00004
	RN	**(CKN * !D * !SE * SI)**	-0.00006	-0.00003	-0.00003
	RN	**(CKN * !D * !SE * SI)**	0.00191	0.00206	0.00240
	RN	**(CKN * !D * !SE * !SI)**	0.00218	0.00233	0.00267
	RN	**(CKN * !D * !SE * !SI)**	-0.00001	0.00002	0.00004
	RN	**(CKN * !D * !SE * !SI)**	-0.00006	-0.00003	-0.00003
	RN	**(CKN * !D * !SE * !SI)**	0.00191	0.00206	0.00240
	RN	**(!CKN * D * SE * SI)**	0.00289	0.00304	0.00336
	RN	**(!CKN * D * SE * SI)**	-0.00002	0.00001	0.00003
	RN	**(!CKN * D * SE * SI)**	-0.00003	-0.00000	0.00002
	RN	**(!CKN * D * SE * SI)**	0.00258	0.00273	0.00306
	RN	**(!CKN * D * SE * !SI)**	0.00287	0.00300	0.00333
	RN	**(!CKN * D * SE * !SI)**	-0.00001	0.00001	0.00002
	RN	**(!CKN * D * SE * !SI)**	-0.00001	-0.00000	0.00002
	RN	**(!CKN * D * SE * !SI)**	0.00255	0.00270	0.00303
	RN	**(!CKN * D * !SE * SI)**	0.00289	0.00304	0.00336
	RN	**(!CKN * D * !SE * SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * D * !SE * SI)**	-0.00003	-0.00001	0.00002
	RN	**(!CKN * D * !SE * SI)**	0.00258	0.00273	0.00306
	RN	**(!CKN * D * !SE * !SI)**	0.00289	0.00304	0.00336
	RN	**(!CKN * D * !SE * !SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * D * !SE * !SI)**	-0.00003	-0.00001	0.00002
	RN	**(!CKN * D * !SE * !SI)**	0.00258	0.00273	0.00306
	RN	**(!CKN * !D * SE * SI)**	0.00289	0.00304	0.00336
	RN	**(!CKN * !D * SE * SI)**	-0.00002	0.00001	0.00003
	RN	**(!CKN * !D * SE * SI)**	-0.00003	-0.00000	0.00002
	RN	**(!CKN * !D * SE * SI)**	0.00258	0.00273	0.00306
	RN	**(!CKN * !D * SE * !SI)**	0.00287	0.00300	0.00333
	RN	**(!CKN * !D * SE * !SI)**	-0.00001	0.00001	0.00002
	RN	**(!CKN * !D * SE * !SI)**	-0.00001	-0.00000	0.00002
	RN	**(!CKN * !D * SE * !SI)**	0.00255	0.00270	0.00303
	RN	**(!CKN * !D * !SE * SI)**	0.00287	0.00300	0.00333
	RN	**(!CKN * !D * !SE * SI)**	-0.00002	0.00001	0.00002
	RN	**(!CKN * !D * !SE * SI)**	-0.00001	-0.00000	0.00002
	RN	**(!CKN * !D * !SE * SI)**	0.00255	0.00269	0.00303
	RN	**(!CKN * !D * !SE * !SI)**	0.00287	0.00300	0.00333
	RN	**(!CKN * !D * !SE * !SI)**	-0.00002	0.00001	0.00002
	RN	**(!CKN * !D * !SE * !SI)**	-0.00001	-0.00000	0.00002
	RN	**(!CKN * !D * !SE * !SI)**	0.00255	0.00269	0.00303

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNRX3H7R	**CKN**	**(RN * SE)**	0.00277	0.00291	0.00323
	CKN	**(RN * SE)**	0.00001	0.00001	0.00003
	CKN	**(RN * SE)**	-0.00003	-0.00003	-0.00000
	CKN	**(RN * SE)**	0.00253	0.00266	0.00300
	CKN	**(RN * !SE)**	0.00276	0.00291	0.00323
	CKN	**(RN * !SE)**	0.00000	0.00001	0.00005
	CKN	**(RN * !SE)**	-0.00004	-0.00003	-0.00001
	CKN	**(RN * !SE)**	0.00252	0.00266	0.00299
	RN	**(CKN * D * SE * SI)**	0.00217	0.00234	0.00270
	RN	**(CKN * D * SE * SI)**	-0.00001	0.00003	0.00006
	RN	**(CKN * D * SE * SI)**	-0.00009	-0.00003	0.00002
	RN	**(CKN * D * SE * SI)**	0.00194	0.00208	0.00246
	RN	**(CKN * D * SE * !SI)**	0.00216	0.00233	0.00267
	RN	**(CKN * D * SE * !SI)**	-0.00001	0.00002	0.00005
	RN	**(CKN * D * SE * !SI)**	-0.00006	-0.00003	0.00001
	RN	**(CKN * D * SE * !SI)**	0.00190	0.00206	0.00241
	RN	**(CKN * D * !SE * SI)**	0.00217	0.00233	0.00269
	RN	**(CKN * D * !SE * SI)**	-0.00001	0.00003	0.00006
	RN	**(CKN * D * !SE * SI)**	-0.00008	-0.00003	0.00001
	RN	**(CKN * D * !SE * SI)**	0.00191	0.00207	0.00244
	RN	**(CKN * D * !SE * !SI)**	0.00217	0.00233	0.00269
	RN	**(CKN * D * !SE * !SI)**	-0.00001	0.00003	0.00006
	RN	**(CKN * D * !SE * !SI)**	-0.00008	-0.00003	0.00002
	RN	**(CKN * D * !SE * !SI)**	0.00191	0.00207	0.00244
	RN	**(CKN * !D * SE * SI)**	0.00217	0.00234	0.00270
	RN	**(CKN * !D * SE * SI)**	-0.00000	0.00003	0.00005
	RN	**(CKN * !D * SE * SI)**	-0.00009	-0.00003	0.00002
	RN	**(CKN * !D * SE * SI)**	0.00194	0.00208	0.00246
	RN	**(CKN * !D * SE * !SI)**	0.00216	0.00233	0.00267
	RN	**(CKN * !D * SE * !SI)**	-0.00001	0.00002	0.00005
	RN	**(CKN * !D * SE * !SI)**	-0.00006	-0.00003	0.00000
	RN	**(CKN * !D * SE * !SI)**	0.00190	0.00206	0.00241
	RN	**(CKN * !D * !SE * SI)**	0.00217	0.00233	0.00267
	RN	**(CKN * !D * !SE * SI)**	-0.00001	0.00002	0.00005
	RN	**(CKN * !D * !SE * SI)**	-0.00004	-0.00003	-0.00002
	RN	**(CKN * !D * !SE * SI)**	0.00192	0.00206	0.00240
	RN	**(CKN * !D * !SE * !SI)**	0.00217	0.00233	0.00267
	RN	**(CKN * !D * !SE * !SI)**	-0.00001	0.00002	0.00005
	RN	**(CKN * !D * !SE * !SI)**	-0.00004	-0.00003	-0.00002
	RN	**(CKN * !D * !SE * !SI)**	0.00192	0.00206	0.00241
	RN	**(!CKN * D * SE * SI)**	0.00288	0.00304	0.00337
	RN	**(!CKN * D * SE * SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * D * SE * SI)**	-0.00004	-0.00000	0.00004
	RN	**(!CKN * D * SE * SI)**	0.00259	0.00273	0.00305
	RN	**(!CKN * D * SE * !SI)**	0.00285	0.00301	0.00334
	RN	**(!CKN * D * SE * !SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * D * SE * !SI)**	-0.00001	-0.00000	0.00003
	RN	**(!CKN * D * SE * !SI)**	0.00255	0.00269	0.00303
	RN	**(!CKN * D * !SE * SI)**	0.00288	0.00304	0.00336
	RN	**(!CKN * D * !SE * SI)**	-0.00002	0.00001	0.00005
	RN	**(!CKN * D * !SE * SI)**	-0.00033	-0.00001	0.00003
	RN	**(!CKN * D * !SE * SI)**	0.00258	0.00273	0.00305
	RN	**(!CKN * D * !SE * !SI)**	0.00288	0.00304	0.00336
	RN	**(!CKN * D * !SE * !SI)**	-0.00002	0.00001	0.00005
	RN	**(!CKN * D * !SE * !SI)**	-0.00033	-0.00001	0.00003
	RN	**(!CKN * D * !SE * !SI)**	0.00258	0.00273	0.00305
	RN	**(!CKN * !D * SE * SI)**	0.00288	0.00304	0.00337
	RN	**(!CKN * !D * SE * SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * !D * SE * SI)**	-0.00004	-0.00000	0.00004
	RN	**(!CKN * !D * SE * SI)**	0.00259	0.00273	0.00305
	RN	**(!CKN * !D * SE * !SI)**	0.00285	0.00301	0.00334
	RN	**(!CKN * !D * SE * !SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * !D * SE * !SI)**	-0.00001	-0.00000	0.00003
	RN	**(!CKN * !D * SE * !SI)**	0.00255	0.00269	0.00303
	RN	**(!CKN * !D * !SE * SI)**	0.00286	0.00301	0.00334
	RN	**(!CKN * !D * !SE * SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * !D * !SE * SI)**	-0.00005	-0.00001	0.00004
	RN	**(!CKN * !D * !SE * SI)**	0.00255	0.00270	0.00302
	RN	**(!CKN * !D * !SE * !SI)**	0.00286	0.00301	0.00334
	RN	**(!CKN * !D * !SE * !SI)**	-0.00002	0.00001	0.00004
	RN	**(!CKN * !D * !SE * !SI)**	-0.00005	-0.00000	0.00004
	RN	**(!CKN * !D * !SE * !SI)**	0.00255	0.00270	0.00302

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNRX3H7R	CKN	(RN * SE)	0.00317	0.00329	0.00363
	CKN	(RN * SE)	-0.00002	-0.00001	-0.00001
	CKN	(RN * SE)	0.00000	0.00003	0.00006
	CKN	(RN * SE)	0.00276	0.00291	0.00325
	CKN	(RN * !SE)	0.00316	0.00329	0.00363
	CKN	(RN * !SE)	-0.00002	-0.00001	0.00000
	CKN	(RN * !SE)	0.00001	0.00003	0.00006
	CKN	(RN * !SE)	0.00277	0.00291	0.00325

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7R	0.00302	0.00317	0.00373
	-0.00001	-0.00001	0.00000
	-0.00004	-0.00003	-0.00001
	0.00366	0.00381	0.00437

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7R	0.00409	0.00421	0.00467
	0.00000	0.00001	0.00003
	0.00002	0.00003	0.00004
	0.00343	0.00356	0.00402

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7R	0.00145	0.00151	0.00176
	0.00015	0.00016	0.00016
	-0.00014	-0.00013	-0.00013
	0.00253	0.00260	0.00284

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7R	0.00268	0.00274	0.00298
	-0.00016	-0.00016	-0.00015
	0.00013	0.00014	0.00014
	0.00157	0.00163	0.00187

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7R	0.00106	0.00122	0.00181
	0.00000	0.00000	0.00000
	0.00001	0.00001	0.00002
	0.00161	0.00177	0.00236

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7R	0.00086	0.00103	0.00165
	0.00000	0.00000	0.00000
	0.00003	0.00003	0.00003
	0.00009	0.00027	0.00089

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7R	0.00245	0.00261	0.00316
	0.00000	0.00000	0.00000
	0.00010	0.00011	0.00012
	0.00309	0.00324	0.00380

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7R	0.00335	0.00363	0.00464
	0.00000	0.00000	0.00000
	0.00017	0.00017	0.00018
	0.00148	0.00177	0.00279

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7R	0.00127	0.00132	0.00151
	0.00014	0.00014	0.00015
	-0.00013	-0.00012	-0.00011
	0.00230	0.00235	0.00254

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNRX3H7R	0.00280	0.00285	0.00301
	-0.00015	-0.00014	-0.00014
	0.00011	0.00012	0.00013
	0.00175	0.00180	0.00197

SDFFNSX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Set
Q = !SN ? 1 : falling (CKN) ? (SE& SI | !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	SE	SI	SN	Q	QN
F	0	0	x	1	0	1
F	x	1	0	1	0	1
F	x	1	1	1	1	0
F	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFNSX0P5H7R	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	SE	SI	SN	Q	QN
SDFFNSX0P5H7R	0.00084	0.00071	0.00179	0.00079	0.00074	0.05956	0.05994

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNSX0P5H7R	0.00000	1.09737	1.44993

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX0P5H7R	CKN->Q (FR)	(SE * SN)	0.12358	0.27819	0.65607
	CKN->Q (FR)	(!SE * SN)	0.12356	0.27819	0.65607
	SN->Q (FR)	(CKN * D * SE * SI)	0.08304	0.24216	0.63203
	SN->Q (FR)	(CKN * D * SE * !SI)	0.08719	0.24968	0.64787
	SN->Q (FR)	(CKN * D * !SE * SI)	0.08304	0.24216	0.63202
	SN->Q (FR)	(CKN * D * !SE * !SI)	0.08304	0.24216	0.63203
	SN->Q (FR)	(CKN * !D * SE * SI)	0.08304	0.24216	0.63202
	SN->Q (FR)	(CKN * !D * SE * !SI)	0.08719	0.24969	0.64787
	SN->Q (FR)	(CKN * !D * !SE * SI)	0.08720	0.24968	0.64787
	SN->Q (FR)	(CKN * !D * !SE * !SI)	0.08720	0.24969	0.64787
	SN->Q (FR)	(!CKN * D * SE * SI)	0.09427	0.25842	0.66254
	SN->Q (FR)	(!CKN * D * SE * !SI)	0.09427	0.25842	0.66254
	SN->Q (FR)	(!CKN * D * !SE * SI)	0.09427	0.25842	0.66254
	SN->Q (FR)	(!CKN * D * !SE * !SI)	0.09427	0.25841	0.66231
	SN->Q (FR)	(!CKN * !D * SE * SI)	0.09427	0.25842	0.66254
	SN->Q (FR)	(!CKN * !D * SE * !SI)	0.09427	0.25842	0.66254
	SN->Q (FR)	(!CKN * !D * !SE * SI)	0.09427	0.25842	0.66254
	SN->Q (FR)	(!CKN * !D * !SE * !SI)	0.09427	0.25842	0.66254

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX0P5H7R	CKN->Q (FF)	(SE * SN)	0.11516	0.24598	0.55656
	CKN->Q (FF)	(!SE * SN)	0.11518	0.24602	0.55657

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX0P5H7R	CKN->QN (FR)	(SE * SN)	0.08376	0.25158	0.64121
	CKN->QN (FR)	(!SE * SN)	0.08378	0.25161	0.64123

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX0P5H7R	CKN->QN (FF)	(SE * SN)	0.09287	0.23290	0.54664
	CKN->QN (FF)	(!SE * SN)	0.09284	0.23290	0.54665
	SN->QN (FF)	(CKN * D * SE * SI)	0.05350	0.19444	0.52364
	SN->QN (FF)	(CKN * D * SE * !SI)	0.05701	0.20174	0.53863
	SN->QN (FF)	(CKN * D * !SE * SI)	0.05350	0.19444	0.52364
	SN->QN (FF)	(CKN * D * !SE * !SI)	0.05350	0.19444	0.52364
	SN->QN (FF)	(CKN * !D * SE * SI)	0.05350	0.19444	0.52364
	SN->QN (FF)	(CKN * !D * SE * !SI)	0.05701	0.20174	0.53863
	SN->QN (FF)	(CKN * !D * !SE * SI)	0.05702	0.20175	0.53864
	SN->QN (FF)	(CKN * !D * !SE * !SI)	0.05702	0.20175	0.53864
	SN->QN (FF)	(!CKN * D * SE * SI)	0.06158	0.21580	0.56968
	SN->QN (FF)	(!CKN * D * SE * !SI)	0.06158	0.21581	0.56968
	SN->QN (FF)	(!CKN * D * !SE * SI)	0.06158	0.21580	0.56968
	SN->QN (FF)	(!CKN * D * !SE * !SI)	0.06158	0.21580	0.56968
	SN->QN (FF)	(!CKN * !D * SE * SI)	0.06158	0.21581	0.56968
	SN->QN (FF)	(!CKN * !D * SE * !SI)	0.06158	0.21581	0.56968
	SN->QN (FF)	(!CKN * !D * !SE * SI)	0.06158	0.21580	0.56968
	SN->QN (FF)	(!CKN * !D * !SE * !SI)	0.06158	0.21580	0.56968

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNSX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7R	**hold**	**CKN (F)**	-0.06266	0.00723	0.10433
	setup	**CKN (F)**	-0.07531	0.03414	0.14541

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7R	**hold**	**CKN (F)**	-0.16918	-0.07562	-0.01227
	setup	**CKN (F)**	0.03297	0.10963	0.23046

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7R	**hold**	**CKN (F)**	-0.02919	0.02079	0.11238
	setup	**CKN (F)**	0.05015	0.10451	0.16164

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7R	**hold**	**CKN (F)**	-0.09219	-0.00653	0.09245
	setup	**CKN (F)**	0.02564	0.10168	0.22183

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7R	hold	CKN (F)	-0.06264	0.00660	0.10231
	setup	CKN (F)	-0.07517	0.03399	0.14499

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7R	hold	CKN (F)	-0.18011	-0.08353	-0.02154
	setup	CKN (F)	0.04149	0.11965	0.24302

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX0P5H7R	recovery	CKN (F)	-0.07952	0.01685	0.15853
	removal	CKN (F)	0.08305	0.14020	0.25718

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFNSX0P5H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(SE * SN)**	0.00232	0.00242	0.00271
	CKN	**(SE * SN)**	-0.00002	-0.00002	-0.00002
	CKN	**(SE * SN)**	0.00000	0.00001	0.00003
	CKN	**(SE * SN)**	0.00196	0.00207	0.00236
	CKN	**(!SE * SN)**	0.00232	0.00242	0.00271
	CKN	**(!SE * SN)**	-0.00002	-0.00002	-0.00002
	CKN	**(!SE * SN)**	0.00000	0.00001	0.00003
	CKN	**(!SE * SN)**	0.00196	0.00207	0.00236
	SN	**(CKN * D * SE * SI)**	0.00138	0.00144	0.00161
	SN	**(CKN * D * SE * SI)**	-0.00006	-0.00004	-0.00004
	SN	**(CKN * D * SE * SI)**	0.00001	0.00004	0.00004
	SN	**(CKN * D * SE * SI)**	0.00105	0.00111	0.00128
	SN	**(CKN * D * SE * !SI)**	0.00145	0.00152	0.00170
	SN	**(CKN * D * SE * !SI)**	-0.00007	-0.00005	-0.00003
	SN	**(CKN * D * SE * !SI)**	0.00003	0.00005	0.00007
	SN	**(CKN * D * SE * !SI)**	0.00109	0.00117	0.00134
	SN	**(CKN * D * !SE * SI)**	0.00137	0.00144	0.00161
	SN	**(CKN * D * !SE * SI)**	-0.00006	-0.00004	-0.00003
	SN	**(CKN * D * !SE * SI)**	0.00001	0.00004	0.00006
	SN	**(CKN * D * !SE * SI)**	0.00103	0.00111	0.00128
	SN	**(CKN * D * !SE * !SI)**	0.00137	0.00144	0.00161
	SN	**(CKN * D * !SE * !SI)**	-0.00006	-0.00004	-0.00003
	SN	**(CKN * D * !SE * !SI)**	0.00001	0.00004	0.00006
	SN	**(CKN * D * !SE * !SI)**	0.00103	0.00111	0.00128
	SN	**(CKN * !D * SE * SI)**	0.00137	0.00144	0.00161
	SN	**(CKN * !D * SE * SI)**	-0.00006	-0.00004	-0.00004
	SN	**(CKN * !D * SE * SI)**	0.00001	0.00004	0.00004
	SN	**(CKN * !D * SE * SI)**	0.00105	0.00111	0.00128
	SN	**(CKN * !D * SE * !SI)**	0.00145	0.00152	0.00170
	SN	**(CKN * !D * SE * !SI)**	-0.00007	-0.00005	-0.00003
	SN	**(CKN * !D * SE * !SI)**	0.00003	0.00005	0.00007
	SN	**(CKN * !D * SE * !SI)**	0.00109	0.00117	0.00134
	SN	**(CKN * !D * !SE * SI)**	0.00145	0.00152	0.00170
	SN	**(CKN * !D * !SE * SI)**	-0.00007	-0.00005	-0.00002
	SN	**(CKN * !D * !SE * SI)**	0.00005	0.00005	0.00007
	SN	**(CKN * !D * !SE * SI)**	0.00108	0.00116	0.00134
SDFFNSX0P5H7R	**SN**	**(CKN * !D * !SE * !SI)**	0.00145	0.00152	0.00170
	SN	**(CKN * !D * !SE * !SI)**	-0.00007	-0.00005	-0.00004
	SN	**(CKN * !D * !SE * !SI)**	0.00005	0.00005	0.00007
	SN	**(CKN * !D * !SE * !SI)**	0.00108	0.00116	0.00134
	SN	**(!CKN * D * SE * SI)**	0.00196	0.00202	0.00221
	SN	**(!CKN * D * SE * SI)**	-0.00002	-0.00002	-0.00002
	SN	**(!CKN * D * SE * SI)**	0.00001	0.00001	0.00001
	SN	**(!CKN * D * SE * SI)**	0.00168	0.00174	0.00193
	SN	**(!CKN * D * SE * !SI)**	0.00199	0.00205	0.00224
	SN	**(!CKN * D * SE * !SI)**	-0.00004	-0.00002	-0.00002
	SN	**(!CKN * D * SE * !SI)**	0.00001	0.00001	0.00001
	SN	**(!CKN * D * SE * !SI)**	0.00170	0.00177	0.00196
	SN	**(!CKN * D * !SE * SI)**	0.00196	0.00202	0.00221
	SN	**(!CKN * D * !SE * SI)**	-0.00002	-0.00002	-0.00002
	SN	**(!CKN * D * !SE * SI)**	0.00001	0.00001	0.00005
	SN	**(!CKN * D * !SE * SI)**	0.00168	0.00174	0.00193
	SN	**(!CKN * D * !SE * !SI)**	0.00196	0.00202	0.00221
	SN	**(!CKN * D * !SE * !SI)**	-0.00002	-0.00002	-0.00002
	SN	**(!CKN * D * !SE * !SI)**	0.00001	0.00001	0.00005
	SN	**(!CKN * D * !SE * !SI)**	0.00167	0.00174	0.00193
	SN	**(!CKN * !D * SE * SI)**	0.00196	0.00202	0.00220
	SN	**(!CKN * !D * SE * SI)**	-0.00002	-0.00002	-0.00002
	SN	**(!CKN * !D * SE * SI)**	0.00001	0.00001	0.00001
	SN	**(!CKN * !D * SE * SI)**	0.00168	0.00174	0.00192
	SN	**(!CKN * !D * SE * !SI)**	0.00199	0.00205	0.00224
	SN	**(!CKN * !D * SE * !SI)**	-0.00004	-0.00002	-0.00002
	SN	**(!CKN * !D * SE * !SI)**	0.00001	0.00001	0.00001
	SN	**(!CKN * !D * SE * !SI)**	0.00170	0.00177	0.00196
	SN	**(!CKN * !D * !SE * SI)**	0.00199	0.00205	0.00223
	SN	**(!CKN * !D * !SE * SI)**	-0.00004	-0.00002	-0.00002
	SN	**(!CKN * !D * !SE * SI)**	0.00001	0.00001	0.00001
	SN	**(!CKN * !D * !SE * SI)**	0.00169	0.00177	0.00196
	SN	**(!CKN * !D * !SE * !SI)**	0.00199	0.00205	0.00223
	SN	**(!CKN * !D * !SE * !SI)**	-0.00004	-0.00002	-0.00002
	SN	**(!CKN * !D * !SE * !SI)**	0.00001	0.00001	0.00001
	SN	**(!CKN * !D * !SE * !SI)**	0.00169	0.00177	0.00195

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX0P5H7R	CKN	(SE * SN)	0.00213	0.00222	0.00247
	CKN	(SE * SN)	0.00002	0.00002	0.00002
	CKN	(SE * SN)	-0.00002	-0.00001	0.00000
	CKN	(SE * SN)	0.00190	0.00199	0.00224
	CKN	(!SE * SN)	0.00213	0.00222	0.00247
	CKN	(!SE * SN)	0.00002	0.00002	0.00002
	CKN	(!SE * SN)	-0.00002	-0.00001	0.00000
	CKN	(!SE * SN)	0.00190	0.00199	0.00225

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX0P5H7R	CKN	(SE * SN)	0.00212	0.00222	0.00248
	CKN	(SE * SN)	0.00000	0.00002	0.00004
	CKN	(SE * SN)	-0.00002	-0.00001	0.00001
	CKN	(SE * SN)	0.00189	0.00199	0.00226
	CKN	(!SE * SN)	0.00212	0.00222	0.00247
	CKN	(!SE * SN)	0.00000	0.00002	0.00004
	CKN	(!SE * SN)	-0.00002	-0.00001	0.00001
	CKN	(!SE * SN)	0.00189	0.00199	0.00225

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(SE * SN)**	0.00231	0.00242	0.00271
	CKN	**(SE * SN)**	-0.00003	-0.00002	-0.00000
	CKN	**(SE * SN)**	0.00000	0.00001	0.00004
	CKN	**(SE * SN)**	0.00196	0.00207	0.00236
	CKN	**(!SE * SN)**	0.00231	0.00242	0.00271
	CKN	**(!SE * SN)**	-0.00003	-0.00002	-0.00000
	CKN	**(!SE * SN)**	0.00000	0.00001	0.00004
	CKN	**(!SE * SN)**	0.00197	0.00207	0.00236
	SN	**(CKN * D * SE * SI)**	0.00137	0.00144	0.00161
	SN	**(CKN * D * SE * SI)**	-0.00006	-0.00004	-0.00004
	SN	**(CKN * D * SE * SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * D * SE * SI)**	0.00103	0.00111	0.00128
	SN	**(CKN * D * SE * !SI)**	0.00145	0.00152	0.00170
	SN	**(CKN * D * SE * !SI)**	-0.00005	-0.00005	-0.00003
	SN	**(CKN * D * SE * !SI)**	0.00003	0.00005	0.00006
	SN	**(CKN * D * SE * !SI)**	0.00108	0.00117	0.00134
	SN	**(CKN * D * !SE * SI)**	0.00137	0.00144	0.00161
	SN	**(CKN * D * !SE * SI)**	-0.00006	-0.00004	-0.00004
	SN	**(CKN * D * !SE * SI)**	0.00002	0.00004	0.00006
	SN	**(CKN * D * !SE * SI)**	0.00104	0.00111	0.00128
	SN	**(CKN * D * !SE * !SI)**	0.00137	0.00144	0.00161
	SN	**(CKN * D * !SE * !SI)**	-0.00006	-0.00004	-0.00004
	SN	**(CKN * D * !SE * !SI)**	0.00002	0.00004	0.00006
	SN	**(CKN * D * !SE * !SI)**	0.00104	0.00111	0.00128
	SN	**(CKN * !D * SE * SI)**	0.00137	0.00144	0.00161
	SN	**(CKN * !D * SE * SI)**	-0.00006	-0.00004	-0.00004
	SN	**(CKN * !D * SE * SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * !D * SE * SI)**	0.00103	0.00111	0.00128
	SN	**(CKN * !D * SE * !SI)**	0.00145	0.00152	0.00170
	SN	**(CKN * !D * SE * !SI)**	-0.00005	-0.00005	-0.00004
	SN	**(CKN * !D * SE * !SI)**	0.00003	0.00005	0.00006
	SN	**(CKN * !D * SE * !SI)**	0.00108	0.00117	0.00134
	SN	**(CKN * !D * !SE * SI)**	0.00145	0.00152	0.00170
	SN	**(CKN * !D * !SE * SI)**	-0.00008	-0.00005	-0.00004
	SN	**(CKN * !D * !SE * SI)**	0.00003	0.00005	0.00006
SDFFNSX0P5H7R	**SN**	**(CKN * !D * !SE * SI)**	0.00110	0.00117	0.00134
	SN	**(CKN * !D * !SE * !SI)**	0.00145	0.00152	0.00170
	SN	**(CKN * !D * !SE * !SI)**	-0.00008	-0.00005	-0.00004
	SN	**(CKN * !D * !SE * !SI)**	0.00003	0.00005	0.00006
	SN	**(CKN * !D * !SE * !SI)**	0.00110	0.00117	0.00134
	SN	**(!CKN * D * SE * SI)**	0.00196	0.00202	0.00220
	SN	**(!CKN * D * SE * SI)**	-0.00004	-0.00002	0.00000
	SN	**(!CKN * D * SE * SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * D * SE * SI)**	0.00166	0.00174	0.00192
	SN	**(!CKN * D * SE * !SI)**	0.00199	0.00205	0.00223
	SN	**(!CKN * D * SE * !SI)**	-0.00004	-0.00002	0.00001
	SN	**(!CKN * D * SE * !SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * D * SE * !SI)**	0.00170	0.00177	0.00196
	SN	**(!CKN * D * !SE * SI)**	0.00086	0.00200	0.00220
	SN	**(!CKN * D * !SE * SI)**	-0.00003	0.00003	0.00238
	SN	**(!CKN * D * !SE * SI)**	-0.02085	-0.00042	0.00005
	SN	**(!CKN * D * !SE * SI)**	0.00166	0.00218	0.02303
	SN	**(!CKN * D * !SE * !SI)**	0.00083	0.00200	0.00220
	SN	**(!CKN * D * !SE * !SI)**	-0.00003	0.00003	0.00238
	SN	**(!CKN * D * !SE * !SI)**	-0.02077	-0.00042	0.00005
	SN	**(!CKN * D * !SE * !SI)**	0.00166	0.00218	0.02291
	SN	**(!CKN * !D * SE * SI)**	0.00196	0.00202	0.00220
	SN	**(!CKN * !D * SE * SI)**	-0.00004	-0.00002	0.00000
	SN	**(!CKN * !D * SE * SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * !D * SE * SI)**	0.00166	0.00174	0.00192
	SN	**(!CKN * !D * SE * !SI)**	0.00199	0.00205	0.00223
	SN	**(!CKN * !D * SE * !SI)**	-0.00004	-0.00002	0.00001
	SN	**(!CKN * !D * SE * !SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * !D * SE * !SI)**	0.00170	0.00177	0.00195
	SN	**(!CKN * !D * !SE * SI)**	0.00199	0.00205	0.00223
	SN	**(!CKN * !D * !SE * SI)**	-0.00003	-0.00002	0.00000
	SN	**(!CKN * !D * !SE * SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * !D * !SE * SI)**	0.00171	0.00177	0.00196
	SN	**(!CKN * !D * !SE * !SI)**	0.00199	0.00205	0.00223
	SN	**(!CKN * !D * !SE * !SI)**	-0.00003	-0.00002	0.00000
	SN	**(!CKN * !D * !SE * !SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * !D * !SE * !SI)**	0.00171	0.00177	0.00195

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7R	0.00291	0.00305	0.00354
	-0.00001	-0.00001	-0.00001
	-0.00002	-0.00002	-0.00002
	0.00351	0.00365	0.00414

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7R	0.00353	0.00366	0.00411
	0.00001	0.00002	0.00003
	0.00002	0.00002	0.00002
	0.00293	0.00306	0.00351

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7R	0.00150	0.00156	0.00176
	0.00014	0.00014	0.00014
	-0.00012	-0.00011	-0.00011
	0.00246	0.00251	0.00271

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7R	0.00236	0.00242	0.00265
	-0.00014	-0.00014	-0.00013
	0.00011	0.00011	0.00012
	0.00140	0.00146	0.00169

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7R	0.00218	0.00231	0.00281
	0.00000	0.00000	0.00000
	0.00006	0.00007	0.00008
	0.00285	0.00298	0.00348

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7R	0.00294	0.00320	0.00415
	0.00000	0.00000	0.00000
	0.00010	0.00011	0.00013
	0.00132	0.00158	0.00252

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7R	0.00132	0.00137	0.00156
	0.00013	0.00014	0.00014
	-0.00012	-0.00011	-0.00011
	0.00234	0.00239	0.00257

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7R	0.00255	0.00261	0.00281
	-0.00014	-0.00014	-0.00013
	0.00011	0.00011	0.00012
	0.00154	0.00160	0.00181

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7R	0.00048	0.00048	0.00048
	0.00003	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00111	0.00112	0.00112

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX0P5H7R	0.00019	0.00019	0.00020
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	-0.00026	-0.00025	-0.00023

SDFFNSX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Set
Q = !SN ? 1 : falling (CKN) ? (SE& SI | !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	SE	SI	SN	Q	QN
F	0	0	x	1	0	1
F	x	1	0	1	0	1
F	x	1	1	1	1	0
F	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFNSX1H7R	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	SE	SI	SN	Q	QN
SDFFNSX1H7R	0.00084	0.00071	0.00179	0.00079	0.00075	0.07044	0.07075

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNSX1H7R	0.00000	1.15442	1.50844

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX1H7R	CKN->Q (FR)	(SE * SN)	0.12092	0.27560	0.65390
	CKN->Q (FR)	(!SE * SN)	0.12092	0.27561	0.65390
	SN->Q (FR)	(CKN * D * SE * SI)	0.08275	0.24240	0.63417
	SN->Q (FR)	(CKN * D * SE * !SI)	0.08716	0.25009	0.65004
	SN->Q (FR)	(CKN * D * !SE * SI)	0.08279	0.24240	0.63417
	SN->Q (FR)	(CKN * D * !SE * !SI)	0.08279	0.24240	0.63417
	SN->Q (FR)	(CKN * !D * SE * SI)	0.08275	0.24239	0.63414
	SN->Q (FR)	(CKN * !D * SE * !SI)	0.08716	0.25009	0.65004
	SN->Q (FR)	(CKN * !D * !SE * SI)	0.08717	0.25009	0.65005
	SN->Q (FR)	(CKN * !D * !SE * !SI)	0.08717	0.25009	0.65005
	SN->Q (FR)	(!CKN * D * SE * SI)	0.09460	0.25929	0.66535
	SN->Q (FR)	(!CKN * D * SE * !SI)	0.09460	0.25929	0.66531
	SN->Q (FR)	(!CKN * D * !SE * SI)	0.09460	0.25929	0.66525
	SN->Q (FR)	(!CKN * D * !SE * !SI)	0.09460	0.25929	0.66525
	SN->Q (FR)	(!CKN * !D * SE * SI)	0.09460	0.25930	0.66533
	SN->Q (FR)	(!CKN * !D * SE * !SI)	0.09460	0.25929	0.66531
	SN->Q (FR)	(!CKN * !D * !SE * SI)	0.09461	0.25929	0.66530
	SN->Q (FR)	(!CKN * !D * !SE * !SI)	0.09461	0.25929	0.66530

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX1H7R	CKN->Q (FF)	(SE * SN)	0.11229	0.24400	0.55681
	CKN->Q (FF)	(!SE * SN)	0.11232	0.24403	0.55683

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX1H7R	CKN->QN (FR)	(SE * SN)	0.08130	0.24891	0.63801
	CKN->QN (FR)	(!SE * SN)	0.08132	0.24894	0.63798

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX1H7R	CKN->QN (FF)	(SE * SN)	0.09120	0.23223	0.54808
	CKN->QN (FF)	(!SE * SN)	0.09120	0.23224	0.54809
	SN->QN (FF)	(CKN * D * SE * SI)	0.05371	0.19678	0.53010
	SN->QN (FF)	(CKN * D * SE * !SI)	0.05746	0.20424	0.54562
	SN->QN (FF)	(CKN * D * !SE * SI)	0.05375	0.19679	0.53010
	SN->QN (FF)	(CKN * D * !SE * !SI)	0.05375	0.19679	0.53010
	SN->QN (FF)	(CKN * !D * SE * SI)	0.05371	0.19678	0.53010
	SN->QN (FF)	(CKN * !D * SE * !SI)	0.05746	0.20424	0.54562
	SN->QN (FF)	(CKN * !D * !SE * SI)	0.05746	0.20424	0.54520
	SN->QN (FF)	(CKN * !D * !SE * !SI)	0.05746	0.20424	0.54520
	SN->QN (FF)	(!CKN * D * SE * SI)	0.06246	0.21896	0.57715
	SN->QN (FF)	(!CKN * D * SE * !SI)	0.06247	0.21896	0.57715
	SN->QN (FF)	(!CKN * D * !SE * SI)	0.06246	0.21896	0.57714
	SN->QN (FF)	(!CKN * D * !SE * !SI)	0.06246	0.21896	0.57714
	SN->QN (FF)	(!CKN * !D * SE * SI)	0.06246	0.21896	0.57715
	SN->QN (FF)	(!CKN * !D * SE * !SI)	0.06247	0.21896	0.57715
	SN->QN (FF)	(!CKN * !D * !SE * SI)	0.06247	0.21896	0.57714
	SN->QN (FF)	(!CKN * !D * !SE * !SI)	0.06247	0.21896	0.57714

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNSX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7R	**hold**	**CKN (F)**	-0.06130	0.00738	0.10547
	setup	**CKN (F)**	-0.07416	0.03483	0.14417

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7R	**hold**	**CKN (F)**	-0.16945	-0.07455	-0.01047
	setup	**CKN (F)**	0.03498	0.10991	0.22763

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7R	**hold**	**CKN (F)**	-0.02917	0.02130	0.11378
	setup	**CKN (F)**	0.05079	0.10421	0.15828

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7R	**hold**	**CKN (F)**	-0.09174	-0.00631	0.09259
	setup	**CKN (F)**	0.02379	0.10134	0.22197

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7R	hold	CKN (F)	-0.06124	0.00741	0.10315
	setup	CKN (F)	-0.07416	0.03436	0.14457

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7R	hold	CKN (F)	-0.17963	-0.08218	-0.02020
	setup	CKN (F)	0.04222	0.11918	0.24268

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX1H7R	recovery	CKN (F)	-0.07970	0.01498	0.15826
	removal	CKN (F)	0.08393	0.14083	0.25718

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFNSX1H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(SE * SN)**	0.00238	0.00248	0.00278
	CKN	**(SE * SN)**	-0.00003	-0.00002	-0.00001
	CKN	**(SE * SN)**	0.00001	0.00001	0.00001
	CKN	**(SE * SN)**	0.00203	0.00213	0.00243
	CKN	**(!SE * SN)**	0.00238	0.00248	0.00278
	CKN	**(!SE * SN)**	-0.00003	-0.00002	-0.00001
	CKN	**(!SE * SN)**	0.00000	0.00001	0.00001
	CKN	**(!SE * SN)**	0.00203	0.00213	0.00243
	SN	**(CKN * D * SE * SI)**	0.00143	0.00150	0.00169
	SN	**(CKN * D * SE * SI)**	-0.00004	-0.00004	-0.00002
	SN	**(CKN * D * SE * SI)**	0.00002	0.00004	0.00007
	SN	**(CKN * D * SE * SI)**	0.00108	0.00116	0.00136
	SN	**(CKN * D * SE * !SI)**	0.00151	0.00158	0.00178
	SN	**(CKN * D * SE * !SI)**	-0.00005	-0.00005	-0.00003
	SN	**(CKN * D * SE * !SI)**	0.00002	0.00005	0.00006
	SN	**(CKN * D * SE * !SI)**	0.00115	0.00122	0.00141
	SN	**(CKN * D * !SE * SI)**	0.00143	0.00151	0.00169
	SN	**(CKN * D * !SE * SI)**	-0.00006	-0.00004	-0.00004
	SN	**(CKN * D * !SE * SI)**	0.00001	0.00004	0.00007
	SN	**(CKN * D * !SE * SI)**	0.00111	0.00117	0.00136
	SN	**(CKN * D * !SE * !SI)**	0.00143	0.00151	0.00169
	SN	**(CKN * D * !SE * !SI)**	-0.00006	-0.00004	-0.00003
	SN	**(CKN * D * !SE * !SI)**	0.00002	0.00004	0.00007
	SN	**(CKN * D * !SE * !SI)**	0.00108	0.00117	0.00136
	SN	**(CKN * !D * SE * SI)**	0.00143	0.00150	0.00169
	SN	**(CKN * !D * SE * SI)**	-0.00004	-0.00004	-0.00002
	SN	**(CKN * !D * SE * SI)**	0.00002	0.00004	0.00007
	SN	**(CKN * !D * SE * SI)**	0.00108	0.00116	0.00136
	SN	**(CKN * !D * SE * !SI)**	0.00151	0.00158	0.00178
	SN	**(CKN * !D * SE * !SI)**	-0.00005	-0.00005	-0.00003
	SN	**(CKN * !D * SE * !SI)**	0.00002	0.00005	0.00006
	SN	**(CKN * !D * SE * !SI)**	0.00115	0.00122	0.00141
	SN	**(CKN * !D * !SE * SI)**	0.00149	0.00158	0.00178
	SN	**(CKN * !D * !SE * SI)**	-0.00005	-0.00005	-0.00002
	SN	**(CKN * !D * !SE * SI)**	0.00003	0.00005	0.00008
	SN	**(CKN * !D * !SE * SI)**	0.00113	0.00122	0.00141
SDFFNSX1H7R	**SN**	**(CKN * !D * !SE * !SI)**	0.00151	0.00158	0.00178
	SN	**(CKN * !D * !SE * !SI)**	-0.00007	-0.00005	-0.00003
	SN	**(CKN * !D * !SE * !SI)**	0.00003	0.00005	0.00008
	SN	**(CKN * !D * !SE * !SI)**	0.00113	0.00122	0.00141
	SN	**(!CKN * D * SE * SI)**	0.00202	0.00210	0.00231
	SN	**(!CKN * D * SE * SI)**	-0.00002	-0.00002	0.00001
	SN	**(!CKN * D * SE * SI)**	-0.00000	0.00001	0.00002
	SN	**(!CKN * D * SE * SI)**	0.00174	0.00181	0.00202
	SN	**(!CKN * D * SE * !SI)**	0.00206	0.00214	0.00234
	SN	**(!CKN * D * SE * !SI)**	-0.00004	-0.00002	0.00001
	SN	**(!CKN * D * SE * !SI)**	-0.00001	0.00001	0.00004
	SN	**(!CKN * D * SE * !SI)**	0.00178	0.00184	0.00205
	SN	**(!CKN * D * !SE * SI)**	0.00202	0.00210	0.00231
	SN	**(!CKN * D * !SE * SI)**	-0.00002	-0.00002	0.00001
	SN	**(!CKN * D * !SE * SI)**	0.00000	0.00001	0.00002
	SN	**(!CKN * D * !SE * SI)**	0.00174	0.00181	0.00202
	SN	**(!CKN * D * !SE * !SI)**	0.00202	0.00210	0.00231
	SN	**(!CKN * D * !SE * !SI)**	-0.00002	-0.00002	0.00001
	SN	**(!CKN * D * !SE * !SI)**	0.00000	0.00001	0.00002
	SN	**(!CKN * D * !SE * !SI)**	0.00174	0.00181	0.00202
	SN	**(!CKN * !D * SE * SI)**	0.00202	0.00210	0.00231
	SN	**(!CKN * !D * SE * SI)**	-0.00002	-0.00002	0.00001
	SN	**(!CKN * !D * SE * SI)**	-0.00000	0.00001	0.00002
	SN	**(!CKN * !D * SE * SI)**	0.00174	0.00181	0.00202
	SN	**(!CKN * !D * SE * !SI)**	0.00206	0.00214	0.00234
	SN	**(!CKN * !D * SE * !SI)**	-0.00002	-0.00002	0.00001
	SN	**(!CKN * !D * SE * !SI)**	-0.00001	0.00001	0.00002
	SN	**(!CKN * !D * SE * !SI)**	0.00178	0.00184	0.00205
	SN	**(!CKN * !D * !SE * SI)**	0.00206	0.00214	0.00234
	SN	**(!CKN * !D * !SE * SI)**	-0.00002	-0.00002	0.00001
	SN	**(!CKN * !D * !SE * SI)**	-0.00001	0.00001	0.00002
	SN	**(!CKN * !D * !SE * SI)**	0.00178	0.00185	0.00205
	SN	**(!CKN * !D * !SE * !SI)**	0.00206	0.00214	0.00234
	SN	**(!CKN * !D * !SE * !SI)**	-0.00002	-0.00002	0.00001
	SN	**(!CKN * !D * !SE * !SI)**	-0.00000	0.00001	0.00002
	SN	**(!CKN * !D * !SE * !SI)**	0.00178	0.00185	0.00205

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX1H7R	CKN	(SE * SN)	0.00220	0.00230	0.00255
	CKN	(SE * SN)	0.00001	0.00002	0.00003
	CKN	(SE * SN)	-0.00001	-0.00001	0.00001
	CKN	(SE * SN)	0.00197	0.00206	0.00232
	CKN	(!SE * SN)	0.00219	0.00229	0.00255
	CKN	(!SE * SN)	0.00001	0.00002	0.00004
	CKN	(!SE * SN)	-0.00001	-0.00001	0.00000
	CKN	(!SE * SN)	0.00197	0.00206	0.00232

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX1H7R	CKN	(SE * SN)	0.00219	0.00229	0.00255
	CKN	(SE * SN)	0.00000	0.00002	0.00005
	CKN	(SE * SN)	-0.00002	-0.00001	0.00000
	CKN	(SE * SN)	0.00197	0.00206	0.00233
	CKN	(!SE * SN)	0.00219	0.00230	0.00255
	CKN	(!SE * SN)	0.00000	0.00002	0.00004
	CKN	(!SE * SN)	-0.00002	-0.00001	0.00000
	CKN	(!SE * SN)	0.00197	0.00206	0.00232

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(SE * SN)**	0.00237	0.00248	0.00278
	CKN	**(SE * SN)**	-0.00003	-0.00002	-0.00000
	CKN	**(SE * SN)**	0.00000	0.00001	0.00003
	CKN	**(SE * SN)**	0.00202	0.00213	0.00243
	CKN	**(!SE * SN)**	0.00238	0.00248	0.00278
	CKN	**(!SE * SN)**	-0.00003	-0.00002	0.00000
	CKN	**(!SE * SN)**	0.00000	0.00001	0.00003
	CKN	**(!SE * SN)**	0.00202	0.00213	0.00243
	SN	**(CKN * D * SE * SI)**	0.00143	0.00150	0.00169
	SN	**(CKN * D * SE * SI)**	-0.00005	-0.00004	-0.00002
	SN	**(CKN * D * SE * SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * D * SE * SI)**	0.00109	0.00117	0.00136
	SN	**(CKN * D * SE * !SI)**	0.00151	0.00158	0.00178
	SN	**(CKN * D * SE * !SI)**	-0.00006	-0.00005	-0.00002
	SN	**(CKN * D * SE * !SI)**	0.00003	0.00005	0.00007
	SN	**(CKN * D * SE * !SI)**	0.00113	0.00122	0.00141
	SN	**(CKN * D * !SE * SI)**	0.00143	0.00151	0.00169
	SN	**(CKN * D * !SE * SI)**	-0.00006	-0.00004	-0.00003
	SN	**(CKN * D * !SE * SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * D * !SE * SI)**	0.00109	0.00117	0.00136
	SN	**(CKN * D * !SE * !SI)**	0.00143	0.00151	0.00169
	SN	**(CKN * D * !SE * !SI)**	-0.00006	-0.00004	-0.00003
	SN	**(CKN * D * !SE * !SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * D * !SE * !SI)**	0.00109	0.00117	0.00136
	SN	**(CKN * !D * SE * SI)**	0.00143	0.00150	0.00169
	SN	**(CKN * !D * SE * SI)**	-0.00005	-0.00004	-0.00002
	SN	**(CKN * !D * SE * SI)**	0.00003	0.00004	0.00006
	SN	**(CKN * !D * SE * SI)**	0.00109	0.00117	0.00136
	SN	**(CKN * !D * SE * !SI)**	0.00151	0.00158	0.00178
	SN	**(CKN * !D * SE * !SI)**	-0.00006	-0.00005	-0.00002
	SN	**(CKN * !D * SE * !SI)**	0.00003	0.00005	0.00007
	SN	**(CKN * !D * SE * !SI)**	0.00113	0.00122	0.00141
	SN	**(CKN * !D * !SE * SI)**	0.00151	0.00158	0.00178
	SN	**(CKN * !D * !SE * SI)**	-0.00006	-0.00005	-0.00005
	SN	**(CKN * !D * !SE * SI)**	0.00003	0.00005	0.00007
	SN	**(CKN * !D * !SE * SI)**	0.00113	0.00122	0.00141
SDFFNSX1H7R	**SN**	**(CKN * !D * !SE * !SI)**	0.00151	0.00158	0.00178
	SN	**(CKN * !D * !SE * !SI)**	-0.00006	-0.00005	-0.00002
	SN	**(CKN * !D * !SE * !SI)**	0.00003	0.00005	0.00007
	SN	**(CKN * !D * !SE * !SI)**	0.00113	0.00122	0.00141
	SN	**(!CKN * D * SE * SI)**	0.00203	0.00210	0.00231
	SN	**(!CKN * D * SE * SI)**	-0.00004	-0.00002	-0.00000
	SN	**(!CKN * D * SE * SI)**	-0.00000	0.00002	0.00004
	SN	**(!CKN * D * SE * SI)**	0.00173	0.00181	0.00202
	SN	**(!CKN * D * SE * !SI)**	0.00206	0.00214	0.00234
	SN	**(!CKN * D * SE * !SI)**	-0.00004	-0.00002	-0.00002
	SN	**(!CKN * D * SE * !SI)**	-0.00000	0.00002	0.00003
	SN	**(!CKN * D * SE * !SI)**	0.00177	0.00184	0.00205
	SN	**(!CKN * D * !SE * SI)**	0.00203	0.00210	0.00231
	SN	**(!CKN * D * !SE * SI)**	-0.00003	-0.00002	0.00000
	SN	**(!CKN * D * !SE * SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * D * !SE * SI)**	0.00174	0.00181	0.00202
	SN	**(!CKN * D * !SE * !SI)**	0.00203	0.00210	0.00231
	SN	**(!CKN * D * !SE * !SI)**	-0.00003	-0.00002	0.00000
	SN	**(!CKN * D * !SE * !SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * D * !SE * !SI)**	0.00174	0.00181	0.00202
	SN	**(!CKN * !D * SE * SI)**	0.00203	0.00210	0.00231
	SN	**(!CKN * !D * SE * SI)**	-0.00004	-0.00002	-0.00000
	SN	**(!CKN * !D * SE * SI)**	-0.00000	0.00002	0.00004
	SN	**(!CKN * !D * SE * SI)**	0.00173	0.00181	0.00202
	SN	**(!CKN * !D * SE * !SI)**	0.00206	0.00214	0.00234
	SN	**(!CKN * !D * SE * !SI)**	-0.00004	-0.00002	-0.00002
	SN	**(!CKN * !D * SE * !SI)**	-0.00000	0.00002	0.00003
	SN	**(!CKN * !D * SE * !SI)**	0.00177	0.00184	0.00205
	SN	**(!CKN * !D * !SE * SI)**	0.00207	0.00214	0.00234
	SN	**(!CKN * !D * !SE * SI)**	-0.00003	-0.00002	-0.00000
	SN	**(!CKN * !D * !SE * SI)**	-0.00001	0.00001	0.00003
	SN	**(!CKN * !D * !SE * SI)**	0.00176	0.00184	0.00205
	SN	**(!CKN * !D * !SE * !SI)**	0.00207	0.00214	0.00234
	SN	**(!CKN * !D * !SE * !SI)**	-0.00003	-0.00002	-0.00000
	SN	**(!CKN * !D * !SE * !SI)**	-0.00001	0.00002	0.00004
	SN	**(!CKN * !D * !SE * !SI)**	0.00176	0.00184	0.00205

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7R	0.00294	0.00308	0.00357
	-0.00002	-0.00002	-0.00000
	-0.00003	-0.00002	-0.00002
	0.00354	0.00367	0.00416

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7R	0.00359	0.00371	0.00416
	0.00000	0.00002	0.00002
	0.00002	0.00003	0.00003
	0.00297	0.00310	0.00355

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7R	0.00153	0.00158	0.00179
	0.00013	0.00013	0.00014
	-0.00011	-0.00011	-0.00011
	0.00248	0.00253	0.00273

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7R	0.00238	0.00244	0.00267
	-0.00014	-0.00013	-0.00013
	0.00011	0.00011	0.00011
	0.00143	0.00149	0.00172

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7R	0.00220	0.00233	0.00283
	0.00000	0.00000	0.00000
	0.00006	0.00007	0.00008
	0.00288	0.00301	0.00351

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7R	0.00296	0.00323	0.00417
	0.00000	0.00000	0.00000
	0.00009	0.00011	0.00012
	0.00133	0.00161	0.00255

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7R	0.00135	0.00140	0.00159
	0.00013	0.00013	0.00013
	-0.00011	-0.00011	-0.00011
	0.00236	0.00241	0.00259

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7R	0.00257	0.00263	0.00284
	-0.00013	-0.00013	-0.00013
	0.00011	0.00011	0.00011
	0.00157	0.00163	0.00184

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7R	0.00049	0.00049	0.00050
	0.00003	0.00003	0.00004
	0.00000	0.00000	0.00000
	0.00115	0.00115	0.00115

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX1H7R	0.00019	0.00019	0.00020
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	-0.00027	-0.00026	-0.00024

SDFFNSX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Set
Q = !SN ? 1 : falling (CKN) ? (SE& SI | !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CKN	D	SE	SI	SN	Q	QN
F	0	0	x	1	0	1
F	x	1	0	1	0	1
F	x	1	1	1	1	0
F	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFNSX2H7R	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CKN	D	SE	SI	SN	Q	QN
SDFFNSX2H7R	0.00084	0.00071	0.00179	0.00079	0.00076	0.08109	0.08154

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNSX2H7R	0.00000	1.23563	1.62165

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX2H7R	CKN->Q (FR)	(SE * SN)	0.11640	0.27104	0.64882
	CKN->Q (FR)	(!SE * SN)	0.11640	0.27103	0.64882
	SN->Q (FR)	(CKN * D * SE * SI)	0.08321	0.24334	0.63672
	SN->Q (FR)	(CKN * D * SE * !SI)	0.08783	0.25129	0.65388
	SN->Q (FR)	(CKN * D * !SE * SI)	0.08321	0.24334	0.63672
	SN->Q (FR)	(CKN * D * !SE * !SI)	0.08321	0.24334	0.63672
	SN->Q (FR)	(CKN * !D * SE * SI)	0.08321	0.24334	0.63672
	SN->Q (FR)	(CKN * !D * SE * !SI)	0.08783	0.25129	0.65388
	SN->Q (FR)	(CKN * !D * !SE * SI)	0.08783	0.25130	0.65389
	SN->Q (FR)	(CKN * !D * !SE * !SI)	0.08783	0.25130	0.65389
	SN->Q (FR)	(!CKN * D * SE * SI)	0.09598	0.26131	0.66960
	SN->Q (FR)	(!CKN * D * SE * !SI)	0.09598	0.26130	0.66961
	SN->Q (FR)	(!CKN * D * !SE * SI)	0.09598	0.26130	0.66931
	SN->Q (FR)	(!CKN * D * !SE * !SI)	0.09598	0.26130	0.66930
	SN->Q (FR)	(!CKN * !D * SE * SI)	0.09598	0.26131	0.66960
	SN->Q (FR)	(!CKN * !D * SE * !SI)	0.09598	0.26130	0.66961
	SN->Q (FR)	(!CKN * !D * !SE * SI)	0.09598	0.26130	0.66960
	SN->Q (FR)	(!CKN * !D * !SE * !SI)	0.09598	0.26130	0.66960

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX2H7R	CKN->Q (FF)	(SE * SN)	0.10995	0.24227	0.55702
	CKN->Q (FF)	(!SE * SN)	0.10995	0.24230	0.55705

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX2H7R	CKN->QN (FR)	(SE * SN)	0.08057	0.24876	0.63945
	CKN->QN (FR)	(!SE * SN)	0.08057	0.24878	0.63890

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNSX2H7R	CKN->QN (FF)	(SE * SN)	0.08792	0.22890	0.54565
	CKN->QN (FF)	(!SE * SN)	0.08792	0.22890	0.54565
	SN->QN (FF)	(CKN * D * SE * SI)	0.05448	0.19940	0.53634
	SN->QN (FF)	(CKN * D * SE * !SI)	0.05839	0.20710	0.55209
	SN->QN (FF)	(CKN * D * !SE * SI)	0.05448	0.19941	0.53634
	SN->QN (FF)	(CKN * D * !SE * !SI)	0.05448	0.19941	0.53634
	SN->QN (FF)	(CKN * !D * SE * SI)	0.05448	0.19940	0.53634
	SN->QN (FF)	(CKN * !D * SE * !SI)	0.05839	0.20710	0.55209
	SN->QN (FF)	(CKN * !D * !SE * SI)	0.05840	0.20711	0.55210
	SN->QN (FF)	(CKN * !D * !SE * !SI)	0.05840	0.20711	0.55210
	SN->QN (FF)	(!CKN * D * SE * SI)	0.06408	0.22280	0.58500
	SN->QN (FF)	(!CKN * D * SE * !SI)	0.06408	0.22279	0.58496
	SN->QN (FF)	(!CKN * D * !SE * SI)	0.06408	0.22280	0.58500
	SN->QN (FF)	(!CKN * D * !SE * !SI)	0.06408	0.22279	0.58500
	SN->QN (FF)	(!CKN * !D * SE * SI)	0.06408	0.22280	0.58500
	SN->QN (FF)	(!CKN * !D * SE * !SI)	0.06408	0.22279	0.58496
	SN->QN (FF)	(!CKN * !D * !SE * SI)	0.06408	0.22279	0.58495
	SN->QN (FF)	(!CKN * !D * !SE * !SI)	0.06408	0.22279	0.58495

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNSX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7R	**hold**	**CKN (F)**	-0.06321	0.00601	0.10462
	setup	**CKN (F)**	-0.07631	0.03469	0.14529

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7R	**hold**	**CKN (F)**	-0.16867	-0.07497	-0.00866
	setup	**CKN (F)**	0.03343	0.10997	0.23075

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7R	**hold**	**CKN (F)**	-0.02912	0.01994	0.11268
	setup	**CKN (F)**	0.04984	0.10418	0.15865

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7R	**hold**	**CKN (F)**	-0.09349	-0.00665	0.09145
	setup	**CKN (F)**	0.02368	0.10145	0.22275

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7R	hold	CKN (F)	-0.06188	0.00632	0.10231
	setup	CKN (F)	-0.07416	0.03480	0.14489

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7R	hold	CKN (F)	-0.18086	-0.08264	-0.01774
	setup	CKN (F)	0.04021	0.11876	0.24410

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNSX2H7R	recovery	CKN (F)	-0.08549	0.01249	0.15615
	removal	CKN (F)	0.08279	0.14118	0.25943

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFNSX2H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CKN	**(SE * SN)**	0.00245	0.00256	0.00286
	CKN	**(SE * SN)**	-0.00003	-0.00003	-0.00002
	CKN	**(SE * SN)**	0.00000	0.00001	0.00004
	CKN	**(SE * SN)**	0.00210	0.00221	0.00251
	CKN	**(!SE * SN)**	0.00245	0.00256	0.00286
	CKN	**(!SE * SN)**	-0.00003	-0.00003	-0.00002
	CKN	**(!SE * SN)**	0.00000	0.00001	0.00003
	CKN	**(!SE * SN)**	0.00210	0.00221	0.00251
	SN	**(CKN * D * SE * SI)**	0.00149	0.00157	0.00178
	SN	**(CKN * D * SE * SI)**	-0.00004	-0.00004	-0.00004
	SN	**(CKN * D * SE * SI)**	0.00002	0.00004	0.00004
	SN	**(CKN * D * SE * SI)**	0.00115	0.00123	0.00144
	SN	**(CKN * D * SE * !SI)**	0.00155	0.00165	0.00187
	SN	**(CKN * D * SE * !SI)**	-0.00008	-0.00005	-0.00002
	SN	**(CKN * D * SE * !SI)**	0.00005	0.00005	0.00006
	SN	**(CKN * D * SE * !SI)**	0.00120	0.00128	0.00150
	SN	**(CKN * D * !SE * SI)**	0.00149	0.00157	0.00178
	SN	**(CKN * D * !SE * SI)**	-0.00004	-0.00004	-0.00004
	SN	**(CKN * D * !SE * SI)**	0.00004	0.00004	0.00004
	SN	**(CKN * D * !SE * SI)**	0.00115	0.00123	0.00144
	SN	**(CKN * D * !SE * !SI)**	0.00149	0.00157	0.00178
	SN	**(CKN * D * !SE * !SI)**	-0.00004	-0.00004	-0.00004
	SN	**(CKN * D * !SE * !SI)**	0.00004	0.00004	0.00004
	SN	**(CKN * D * !SE * !SI)**	0.00115	0.00123	0.00144
	SN	**(CKN * !D * SE * SI)**	0.00149	0.00157	0.00178
	SN	**(CKN * !D * SE * SI)**	-0.00004	-0.00004	-0.00004
	SN	**(CKN * !D * SE * SI)**	0.00002	0.00004	0.00004
	SN	**(CKN * !D * SE * SI)**	0.00115	0.00123	0.00144
	SN	**(CKN * !D * SE * !SI)**	0.00155	0.00165	0.00187
	SN	**(CKN * !D * SE * !SI)**	-0.00008	-0.00005	-0.00002
	SN	**(CKN * !D * SE * !SI)**	0.00005	0.00005	0.00006
	SN	**(CKN * !D * SE * !SI)**	0.00120	0.00128	0.00150
	SN	**(CKN * !D * !SE * SI)**	0.00158	0.00165	0.00187
	SN	**(CKN * !D * !SE * SI)**	-0.00007	-0.00005	-0.00004
	SN	**(CKN * !D * !SE * SI)**	0.00005	0.00005	0.00006
	SN	**(CKN * !D * !SE * SI)**	0.00120	0.00128	0.00150
SDFFNSX2H7R	**SN**	**(CKN * !D * !SE * !SI)**	0.00158	0.00165	0.00187
	SN	**(CKN * !D * !SE * !SI)**	-0.00007	-0.00005	-0.00004
	SN	**(CKN * !D * !SE * !SI)**	0.00005	0.00005	0.00006
	SN	**(CKN * !D * !SE * !SI)**	0.00120	0.00128	0.00150
	SN	**(!CKN * D * SE * SI)**	0.00213	0.00220	0.00244
	SN	**(!CKN * D * SE * SI)**	-0.00005	-0.00002	-0.00002
	SN	**(!CKN * D * SE * SI)**	0.00001	0.00002	0.00004
	SN	**(!CKN * D * SE * SI)**	0.00182	0.00189	0.00213
	SN	**(!CKN * D * SE * !SI)**	0.00216	0.00223	0.00247
	SN	**(!CKN * D * SE * !SI)**	-0.00005	-0.00002	0.00000
	SN	**(!CKN * D * SE * !SI)**	0.00000	0.00002	0.00003
	SN	**(!CKN * D * SE * !SI)**	0.00184	0.00193	0.00216
	SN	**(!CKN * D * !SE * SI)**	0.00213	0.00220	0.00244
	SN	**(!CKN * D * !SE * SI)**	-0.00004	-0.00002	0.00000
	SN	**(!CKN * D * !SE * SI)**	0.00002	0.00002	0.00004
	SN	**(!CKN * D * !SE * SI)**	0.00182	0.00189	0.00213
	SN	**(!CKN * D * !SE * !SI)**	0.00213	0.00220	0.00244
	SN	**(!CKN * D * !SE * !SI)**	-0.00004	-0.00002	0.00000
	SN	**(!CKN * D * !SE * !SI)**	0.00002	0.00002	0.00004
	SN	**(!CKN * D * !SE * !SI)**	0.00182	0.00189	0.00213
	SN	**(!CKN * !D * SE * SI)**	0.00213	0.00220	0.00244
	SN	**(!CKN * !D * SE * SI)**	-0.00005	-0.00002	-0.00002
	SN	**(!CKN * !D * SE * SI)**	0.00001	0.00002	0.00004
	SN	**(!CKN * !D * SE * SI)**	0.00182	0.00189	0.00213
	SN	**(!CKN * !D * SE * !SI)**	0.00216	0.00223	0.00247
	SN	**(!CKN * !D * SE * !SI)**	-0.00005	-0.00002	0.00000
	SN	**(!CKN * !D * SE * !SI)**	0.00000	0.00002	0.00003
	SN	**(!CKN * !D * SE * !SI)**	0.00184	0.00193	0.00216
	SN	**(!CKN * !D * !SE * SI)**	0.00216	0.00223	0.00247
	SN	**(!CKN * !D * !SE * SI)**	-0.00004	-0.00002	-0.00000
	SN	**(!CKN * !D * !SE * SI)**	0.00000	0.00002	0.00003
	SN	**(!CKN * !D * !SE * SI)**	0.00184	0.00193	0.00216
	SN	**(!CKN * !D * !SE * !SI)**	0.00216	0.00223	0.00247
	SN	**(!CKN * !D * !SE * !SI)**	-0.00004	-0.00002	-0.00000
	SN	**(!CKN * !D * !SE * !SI)**	0.00000	0.00002	0.00003
	SN	**(!CKN * !D * !SE * !SI)**	0.00184	0.00193	0.00216

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX2H7R	CKN	(SE * SN)	0.00229	0.00239	0.00265
	CKN	(SE * SN)	0.00003	0.00003	0.00003
	CKN	(SE * SN)	-0.00002	-0.00001	0.00000
	CKN	(SE * SN)	0.00207	0.00216	0.00243
	CKN	(!SE * SN)	0.00229	0.00239	0.00265
	CKN	(!SE * SN)	0.00003	0.00003	0.00003
	CKN	(!SE * SN)	-0.00002	-0.00001	0.00000
	CKN	(!SE * SN)	0.00207	0.00216	0.00243

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNSX2H7R	CKN	(SE * SN)	0.00228	0.00239	0.00267
	CKN	(SE * SN)	0.00000	0.00003	0.00005
	CKN	(SE * SN)	-0.00002	-0.00001	0.00001
	CKN	(SE * SN)	0.00204	0.00216	0.00246
	CKN	(!SE * SN)	0.00227	0.00239	0.00265
	CKN	(!SE * SN)	0.00000	0.00003	0.00005
	CKN	(!SE * SN)	-0.00003	-0.00001	0.00001
	CKN	(!SE * SN)	0.00204	0.00216	0.00243

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFNSX2H7R	CKN	(SE * SN)	0.00245	0.00256	0.00287
	CKN	(SE * SN)	-0.00003	-0.00002	-0.00000
	CKN	(SE * SN)	0.00000	0.00001	0.00003
	CKN	(SE * SN)	0.00209	0.00221	0.00253
	CKN	(!SE * SN)	0.00245	0.00256	0.00287
	CKN	(!SE * SN)	-0.00003	-0.00003	-0.00000
	CKN	(!SE * SN)	0.00000	0.00001	0.00003
	CKN	(!SE * SN)	0.00209	0.00221	0.00253
	SN	(CKN * D * SE * SI)	0.00149	0.00157	0.00178
	SN	(CKN * D * SE * SI)	-0.00006	-0.00004	-0.00003
	SN	(CKN * D * SE * SI)	0.00002	0.00004	0.00006
	SN	(CKN * D * SE * SI)	0.00115	0.00123	0.00144
	SN	(CKN * D * SE * !SI)	0.00158	0.00165	0.00187
	SN	(CKN * D * SE * !SI)	-0.00007	-0.00005	-0.00005
	SN	(CKN * D * SE * !SI)	0.00003	0.00005	0.00007
	SN	(CKN * D * SE * !SI)	0.00120	0.00128	0.00150
	SN	(CKN * D * !SE * SI)	0.00149	0.00157	0.00178
	SN	(CKN * D * !SE * SI)	-0.00006	-0.00004	-0.00004
	SN	(CKN * D * !SE * SI)	0.00002	0.00004	0.00006
	SN	(CKN * D * !SE * SI)	0.00114	0.00123	0.00144
	SN	(CKN * D * !SE * !SI)	0.00149	0.00157	0.00178
	SN	(CKN * D * !SE * !SI)	-0.00006	-0.00004	-0.00004
	SN	(CKN * D * !SE * !SI)	0.00002	0.00004	0.00005
	SN	(CKN * D * !SE * !SI)	0.00113	0.00123	0.00144
	SN	(CKN * !D * SE * SI)	0.00149	0.00157	0.00178
	SN	(CKN * !D * SE * SI)	-0.00006	-0.00004	-0.00004
	SN	(CKN * !D * SE * SI)	0.00002	0.00004	0.00006
	SN	(CKN * !D * SE * SI)	0.00115	0.00123	0.00144
	SN	(CKN * !D * SE * !SI)	0.00158	0.00165	0.00187
	SN	(CKN * !D * SE * !SI)	-0.00007	-0.00005	-0.00005
	SN	(CKN * !D * SE * !SI)	0.00003	0.00005	0.00006
	SN	(CKN * !D * SE * !SI)	0.00121	0.00128	0.00150
	SN	(CKN * !D * !SE * SI)	0.00157	0.00165	0.00187
	SN	(CKN * !D * !SE * SI)	-0.00007	-0.00005	-0.00003
	SN	(CKN * !D * !SE * SI)	0.00005	0.00006	0.00007
	SN	(CKN * !D * !SE * SI)	0.00120	0.00128	0.00150
	SN	(CKN * !D * !SE * !SI)	0.00157	0.00165	0.00187
	SN	(CKN * !D * !SE * !SI)	-0.00007	-0.00005	-0.00002
	SN	(CKN * !D * !SE * !SI)	0.00005	0.00006	0.00007
	SN	(CKN * !D * !SE * !SI)	0.00119	0.00128	0.00150
	SN	(!CKN * D * SE * SI)	0.00213	0.00220	0.00244
	SN	(!CKN * D * SE * SI)	-0.00005	-0.00002	0.00000
	SN	(!CKN * D * SE * SI)	-0.00000	0.00002	0.00002
	SN	(!CKN * D * SE * SI)	0.00182	0.00189	0.00213
	SN	(!CKN * D * SE * !SI)	0.00216	0.00223	0.00247
	SN	(!CKN * D * SE * !SI)	-0.00005	-0.00003	-0.00002
	SN	(!CKN * D * SE * !SI)	-0.00001	0.00002	0.00004
	SN	(!CKN * D * SE * !SI)	0.00185	0.00192	0.00216
	SN	(!CKN * D * !SE * SI)	0.00213	0.00220	0.00244
	SN	(!CKN * D * !SE * SI)	-0.00005	-0.00002	0.00000
	SN	(!CKN * D * !SE * SI)	-0.00007	0.00002	0.00004
	SN	(!CKN * D * !SE * SI)	0.00180	0.00190	0.00214
	SN	(!CKN * D * !SE * !SI)	0.00213	0.00220	0.00244
	SN	(!CKN * D * !SE * !SI)	-0.00005	-0.00002	0.00001
	SN	(!CKN * D * !SE * !SI)	-0.00007	0.00002	0.00004
	SN	(!CKN * D * !SE * !SI)	0.00180	0.00190	0.00214
	SN	(!CKN * !D * SE * SI)	0.00213	0.00220	0.00244
	SN	(!CKN * !D * SE * SI)	-0.00005	-0.00002	0.00000
	SN	(!CKN * !D * SE * SI)	-0.00000	0.00002	0.00002
	SN	(!CKN * !D * SE * SI)	0.00182	0.00189	0.00213
	SN	(!CKN * !D * SE * !SI)	0.00216	0.00223	0.00247
	SN	(!CKN * !D * SE * !SI)	-0.00005	-0.00002	0.00000
	SN	(!CKN * !D * SE * !SI)	-0.00000	0.00002	0.00004
	SN	(!CKN * !D * SE * !SI)	0.00185	0.00193	0.00216
	SN	(!CKN * !D * !SE * SI)	0.00214	0.00223	0.00247
	SN	(!CKN * !D * !SE * SI)	-0.00004	-0.00002	0.00000
	SN	(!CKN * !D * !SE * SI)	-0.00000	0.00002	0.00004
	SN	(!CKN * !D * !SE * SI)	0.00186	0.00193	0.00216
	SN	(!CKN * !D * !SE * !SI)	0.00214	0.00223	0.00247
	SN	(!CKN * !D * !SE * !SI)	-0.00005	-0.00002	0.00000
	SN	(!CKN * !D * !SE * !SI)	-0.00000	0.00002	0.00004
	SN	(!CKN * !D * !SE * !SI)	0.00186	0.00193	0.00216

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7R	0.00303	0.00318	0.00367
	-0.00003	-0.00001	-0.00001
	-0.00003	-0.00003	-0.00002
	0.00361	0.00375	0.00424

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7R	0.00368	0.00381	0.00428
	0.00001	0.00001	0.00003
	0.00003	0.00003	0.00004
	0.00306	0.00319	0.00366

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7R	0.00157	0.00163	0.00184
	0.00012	0.00013	0.00013
	-0.00011	-0.00010	-0.00010
	0.00251	0.00256	0.00277

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7R	0.00242	0.00248	0.00271
	-0.00013	-0.00013	-0.00012
	0.00010	0.00010	0.00011
	0.00148	0.00154	0.00178

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7R	0.00223	0.00237	0.00287
	0.00000	0.00000	0.00000
	0.00005	0.00006	0.00008
	0.00291	0.00306	0.00356

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7R	0.00300	0.00326	0.00422
	0.00000	0.00000	0.00000
	0.00009	0.00010	0.00012
	0.00139	0.00166	0.00261

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7R	0.00140	0.00145	0.00164
	0.00011	0.00012	0.00012
	-0.00011	-0.00010	-0.00010
	0.00239	0.00244	0.00263

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7R	0.00260	0.00266	0.00288
	-0.00012	-0.00012	-0.00011
	0.00010	0.00010	0.00011
	0.00162	0.00168	0.00189

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7R	0.00051	0.00051	0.00051
	0.00004	0.00005	0.00005
	0.00000	0.00000	0.00000
	0.00120	0.00120	0.00120

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNSX2H7R	0.00019	0.00019	0.00020
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	-0.00027	-0.00026	-0.00025

SDFFNX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop
Q = falling (CKN) ? (SE& SI ! SE&D) : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
CKN	D	SE	SI	Q	QN
F	0	0	x	0	1
F	x	1	0	0	1
F	x	1	1	1	0
F	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNX0P5H7R	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CKN	D	SE	SI	Q	QN
SDFFNX0P5H7R	0.00099	0.00065	0.00185	0.00072	0.05959	0.05965

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNX0P5H7R	0.00000	1.16843	1.60048

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNX0P5H7R	CKN->Q (FR)	SE	0.07310	0.23083	0.61086
	CKN->Q (FR)	!SE	0.07311	0.23083	0.61050

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNX0P5H7R	CKN->Q (FF)	SE	0.11720	0.25269	0.56105
	CKN->Q (FF)	!SE	0.11721	0.25270	0.56100

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNX0P5H7R	CKN->QN (FR)	SE	0.14387	0.29736	0.67325
	CKN->QN (FR)	!SE	0.14388	0.29737	0.67322

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFNX0P5H7R	CKN->QN (FF)	SE	0.09923	0.22826	0.53482
	CKN->QN (FF)	!SE	0.09924	0.22826	0.53482

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7R	**hold**	**CKN (F)**	-0.11150	-0.01400	0.08317
	setup	**CKN (F)**	-0.05871	0.04567	0.15250

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7R	**hold**	**CKN (F)**	-0.16497	-0.06892	0.00390
	setup	**CKN (F)**	0.00703	0.08399	0.19111

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7R	**hold**	**CKN (F)**	-0.08195	0.00016	0.09432
	setup	**CKN (F)**	0.02861	0.08437	0.13852

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7R	**hold**	**CKN (F)**	-0.12176	-0.02695	0.06839
	setup	**CKN (F)**	-0.00247	0.07305	0.16943

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7R	hold	CKN (F)	-0.11215	-0.01280	0.08435
	setup	CKN (F)	-0.05822	0.04440	0.14846

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX0P5H7R	hold	CKN (F)	-0.17242	-0.07541	-0.00478
	setup	CKN (F)	0.01679	0.09157	0.19887

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNX0P5H7R	CKN	SE	0.00203	0.00213	0.00239
	CKN	SE	0.00002	0.00005	0.00008
	CKN	SE	-0.00005	-0.00003	-0.00001
	CKN	SE	0.00181	0.00190	0.00216
	CKN	!SE	0.00202	0.00214	0.00238
	CKN	!SE	0.00002	0.00005	0.00007
	CKN	!SE	-0.00005	-0.00003	-0.00001
	CKN	!SE	0.00179	0.00190	0.00215

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNX0P5H7R	CKN	SE	0.00232	0.00240	0.00262
	CKN	SE	-0.00004	-0.00003	-0.00001
	CKN	SE	0.00003	0.00005	0.00006
	CKN	SE	0.00192	0.00201	0.00223
	CKN	!SE	0.00232	0.00240	0.00262
	CKN	!SE	-0.00005	-0.00003	-0.00001
	CKN	!SE	0.00003	0.00005	0.00006
	CKN	!SE	0.00192	0.00201	0.00223

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNX0P5H7R	CKN	SE	0.00232	0.00240	0.00263
	CKN	SE	-0.00005	-0.00003	-0.00001
	CKN	SE	0.00003	0.00005	0.00007
	CKN	SE	0.00192	0.00201	0.00224
	CKN	!SE	0.00232	0.00240	0.00263
	CKN	!SE	-0.00005	-0.00003	-0.00001
	CKN	!SE	0.00002	0.00005	0.00007
	CKN	!SE	0.00192	0.00201	0.00224

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFNX0P5H7R	CKN	SE	0.00204	0.00213	0.00239
	CKN	SE	0.00005	0.00005	0.00005
	CKN	SE	-0.00003	-0.00003	-0.00003
	CKN	SE	0.00181	0.00190	0.00215
	CKN	!SE	0.00204	0.00213	0.00239
	CKN	!SE	0.00003	0.00005	0.00007
	CKN	!SE	-0.00003	-0.00003	-0.00002
	CKN	!SE	0.00181	0.00190	0.00215

Passive power(pJ) for CKN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7R	0.00318	0.00331	0.00378
	-0.00000	0.00000	0.00000
	-0.00002	-0.00002	-0.00001
	0.00383	0.00396	0.00444

Passive power(pJ) for CKN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7R	0.00236	0.00248	0.00291
	-0.00000	-0.00000	0.00000
	0.00001	0.00002	0.00002
	0.00170	0.00182	0.00226

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7R	0.00166	0.00172	0.00193
	0.00015	0.00015	0.00016
	-0.00013	-0.00013	-0.00013
	0.00260	0.00265	0.00285

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7R	0.00208	0.00215	0.00238
	-0.00016	-0.00015	-0.00015
	0.00013	0.00013	0.00013
	0.00115	0.00121	0.00145

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7R	0.00123	0.00147	0.00237
	0.00015	0.00015	0.00015
	0.00000	0.00000	0.00000
	0.00279	0.00304	0.00395

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7R	0.00286	0.00302	0.00357
	0.00008	0.00009	0.00010
	0.00000	0.00000	0.00000
	0.00212	0.00229	0.00284

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7R	0.00136	0.00142	0.00161
	0.00014	0.00015	0.00015
	-0.00013	-0.00013	-0.00012
	0.00227	0.00232	0.00252

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFNX0P5H7R	0.00237	0.00244	0.00265
	-0.00015	-0.00015	-0.00014
	0.00012	0.00013	0.00013
	0.00147	0.00153	0.00175

SDFFNX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop
Q = falling (CKN) ? (SE& SI ! SE&D) : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
CKN	D	SE	SI	Q	QN
F	0	0	x	0	1
F	x	1	0	0	1
F	x	1	1	1	0
F	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNX1H7R	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CKN	D	SE	SI	Q	QN
SDFFNX1H7R	0.00097	0.00065	0.00184	0.00072	0.07021	0.07032

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNX1H7R	0.00000	1.24452	1.65738

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX1H7R	CKN->Q (FR)	0.07238	0.23037	0.61063

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX1H7R	CKN->Q (FF)	0.11559	0.25239	0.56390

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX1H7R	CKN->QN (FR)	0.14261	0.29630	0.67297

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX1H7R	CKN->QN (FF)	0.09885	0.22899	0.53802

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7R	**hold**	**CKN (F)**	-0.11222	-0.01281	0.08539
	setup	**CKN (F)**	-0.05878	0.04529	0.15191

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7R	**hold**	**CKN (F)**	-0.16446	-0.06836	0.00732
	setup	**CKN (F)**	0.00702	0.08463	0.19331

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7R	**hold**	**CKN (F)**	-0.08156	0.00218	0.09794
	setup	**CKN (F)**	0.02651	0.08491	0.14131

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7R	**hold**	**CKN (F)**	-0.12040	-0.02579	0.07053
	setup	**CKN (F)**	-0.00458	0.07307	0.16926

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7R	hold	CKN (F)	-0.11116	-0.01170	0.08785
	setup	CKN (F)	-0.05992	0.04348	0.14939

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX1H7R	hold	CKN (F)	-0.17367	-0.07526	-0.00263
	setup	CKN (F)	0.01449	0.09246	0.20363

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX1H7R	CKN	0.00209	0.00220	0.00246
	CKN	0.00004	0.00006	0.00008
	CKN	-0.00005	-0.00003	-0.00001
	CKN	0.00188	0.00198	0.00225

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX1H7R	CKN	0.00239	0.00247	0.00271
	CKN	-0.00005	-0.00003	-0.00002
	CKN	0.00003	0.00005	0.00006
	CKN	0.00200	0.00208	0.00233

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX1H7R	CKN	0.00239	0.00247	0.00271
	CKN	-0.00004	-0.00003	0.00000
	CKN	0.00002	0.00005	0.00007
	CKN	0.00199	0.00208	0.00233

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX1H7R	CKN	0.00211	0.00220	0.00245
	CKN	0.00000	0.00005	0.00005
	CKN	-0.00005	-0.00003	-0.00002
	CKN	0.00188	0.00206	0.00609

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7R	**(D * SE * SI)**	0.00331	0.00344	0.00391
	(D * SE * SI)	-0.00001	-0.00001	-0.00000
	(D * SE * SI)	-0.00001	-0.00000	0.00000
	(D * SE * SI)	0.00396	0.00408	0.00455
	(D * SE * !SI)	0.00285	0.00296	0.00338
	(D * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * SE * !SI)	-0.00001	0.00000	0.00001
	(D * SE * !SI)	0.00341	0.00354	0.00396
	(D * !SE * SI)	0.00331	0.00344	0.00391
	(D * !SE * SI)	-0.00001	-0.00001	-0.00000
	(D * !SE * SI)	-0.00001	-0.00000	0.00000
	(D * !SE * SI)	0.00395	0.00408	0.00455
	(D * !SE * !SI)	0.00331	0.00344	0.00391
	(D * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(D * !SE * !SI)	0.00395	0.00408	0.00455
	(!D * SE * SI)	0.00331	0.00344	0.00391
	(!D * SE * SI)	-0.00001	-0.00001	-0.00000
	(!D * SE * SI)	-0.00001	-0.00000	0.00000
	(!D * SE * SI)	0.00395	0.00408	0.00455
	(!D * SE * !SI)	0.00284	0.00296	0.00338
	(!D * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * SE * !SI)	-0.00000	0.00000	0.00002
	(!D * SE * !SI)	0.00341	0.00354	0.00396
	(!D * !SE * SI)	0.00284	0.00296	0.00338
	(!D * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * SI)	-0.00001	-0.00000	0.00001
	(!D * !SE * SI)	0.00343	0.00354	0.00396
	(!D * !SE * !SI)	0.00284	0.00296	0.00338
	(!D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * !SI)	-0.00001	-0.00000	0.00001
	(!D * !SE * !SI)	0.00343	0.00354	0.00396

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7R	**(D * SE * SI)**	0.00223	0.00235	0.00278
	(D * SE * SI)	0.00001	0.00002	0.00002
	(D * SE * SI)	0.00000	0.00000	0.00001
	(D * SE * SI)	0.00162	0.00175	0.00218
	(D * SE * !SI)	0.00243	0.00255	0.00297
	(D * SE * !SI)	0.00000	0.00000	0.00001
	(D * SE * !SI)	0.00002	0.00002	0.00002
	(D * SE * !SI)	0.00178	0.00190	0.00233
	(D * !SE * SI)	0.00223	0.00235	0.00278
	(D * !SE * SI)	0.00001	0.00002	0.00002
	(D * !SE * SI)	0.00000	0.00000	0.00001
	(D * !SE * SI)	0.00163	0.00175	0.00218
	(D * !SE * !SI)	0.00223	0.00235	0.00278
	(D * !SE * !SI)	0.00001	0.00002	0.00002
	(D * !SE * !SI)	0.00000	0.00000	0.00001
	(D * !SE * !SI)	0.00163	0.00175	0.00218
	(!D * SE * SI)	0.00223	0.00235	0.00278
	(!D * SE * SI)	0.00001	0.00002	0.00002
	(!D * SE * SI)	0.00000	0.00000	0.00001
	(!D * SE * SI)	0.00162	0.00175	0.00218
	(!D * SE * !SI)	0.00243	0.00255	0.00297
	(!D * SE * !SI)	0.00000	0.00000	0.00001
	(!D * SE * !SI)	0.00002	0.00002	0.00002
	(!D * SE * !SI)	0.00178	0.00190	0.00233
	(!D * !SE * SI)	0.00243	0.00255	0.00297
	(!D * !SE * SI)	0.00000	0.00000	0.00001
	(!D * !SE * SI)	0.00002	0.00002	0.00002
	(!D * !SE * SI)	0.00178	0.00190	0.00233
	(!D * !SE * !SI)	0.00243	0.00255	0.00297
	(!D * !SE * !SI)	0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00002	0.00002	0.00002
	(!D * !SE * !SI)	0.00178	0.00190	0.00233

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7R	**(CKN * SE * SI)**	-0.00011	-0.00010	-0.00009
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * SI)	0.00001	0.00001	0.00001
	(CKN * SE * SI)	0.00026	0.00026	0.00026
	(CKN * SE * !SI)	-0.00011	-0.00010	-0.00009
	(CKN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(CKN * SE * !SI)	0.00001	0.00001	0.00001
	(CKN * SE * !SI)	0.00026	0.00026	0.00026
	(CKN * !SE * SI)	0.00173	0.00179	0.00200
	(CKN * !SE * SI)	0.00015	0.00015	0.00015
	(CKN * !SE * SI)	-0.00013	-0.00013	-0.00012
	(CKN * !SE * SI)	0.00266	0.00271	0.00292
	(CKN * !SE * !SI)	0.00174	0.00179	0.00200
	(CKN * !SE * !SI)	0.00015	0.00015	0.00015
	(CKN * !SE * !SI)	-0.00013	-0.00012	-0.00012
	(CKN * !SE * !SI)	0.00266	0.00271	0.00292
	(!CKN * SE * SI)	-0.00011	-0.00010	-0.00009
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * SI)	0.00001	0.00001	0.00001
	(!CKN * SE * SI)	0.00026	0.00026	0.00027
	(!CKN * SE * !SI)	-0.00011	-0.00010	-0.00009
	(!CKN * SE * !SI)	-0.00002	-0.00002	-0.00001
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	0.00026	0.00026	0.00026
	(!CKN * !SE * SI)	0.00026	0.00032	0.00053
	(!CKN * !SE * SI)	0.00015	0.00016	0.00016
	(!CKN * !SE * SI)	-0.00012	-0.00012	-0.00011
	(!CKN * !SE * SI)	0.00125	0.00130	0.00152
	(!CKN * !SE * !SI)	0.00026	0.00032	0.00053
	(!CKN * !SE * !SI)	0.00015	0.00016	0.00016
	(!CKN * !SE * !SI)	-0.00012	-0.00012	-0.00012
	(!CKN * !SE * !SI)	0.00125	0.00131	0.00152

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7R	**(CKN * SE * SI)**	0.00011	0.00012	0.00012
	(CKN * SE * SI)	0.00001	0.00001	0.00001
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * SI)	-0.00025	-0.00025	-0.00024
	(CKN * SE * !SI)	0.00011	0.00012	0.00012
	(CKN * SE * !SI)	0.00001	0.00001	0.00002
	(CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * !SI)	-0.00026	-0.00025	-0.00024
	(CKN * !SE * SI)	0.00211	0.00217	0.00240
	(CKN * !SE * SI)	-0.00015	-0.00015	-0.00015
	(CKN * !SE * SI)	0.00012	0.00013	0.00013
	(CKN * !SE * SI)	0.00118	0.00124	0.00148
	(CKN * !SE * !SI)	0.00210	0.00217	0.00240
	(CKN * !SE * !SI)	-0.00015	-0.00015	-0.00015
	(CKN * !SE * !SI)	0.00012	0.00013	0.00013
	(CKN * !SE * !SI)	0.00118	0.00124	0.00148
	(!CKN * SE * SI)	0.00011	0.00012	0.00012
	(!CKN * SE * SI)	0.00001	0.00001	0.00001
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * SI)	-0.00025	-0.00025	-0.00024
	(!CKN * SE * !SI)	0.00011	0.00012	0.00012
	(!CKN * SE * !SI)	0.00001	0.00002	0.00002
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	-0.00025	-0.00025	-0.00024
	(!CKN * !SE * SI)	0.00110	0.00117	0.00140
	(!CKN * !SE * SI)	-0.00016	-0.00016	-0.00015
	(!CKN * !SE * SI)	0.00012	0.00012	0.00012
	(!CKN * !SE * SI)	0.00011	0.00017	0.00041
	(!CKN * !SE * !SI)	0.00110	0.00116	0.00140
	(!CKN * !SE * !SI)	-0.00016	-0.00016	-0.00015
	(!CKN * !SE * !SI)	0.00012	0.00012	0.00012
	(!CKN * !SE * !SI)	0.00011	0.00017	0.00041

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7R	**(CKN * D * SI)**	-0.00013	0.00001	0.00051
	(CKN * D * SI)	0.00002	0.00003	0.00003
	(CKN * D * SI)	-0.00003	-0.00002	-0.00002
	(CKN * D * SI)	0.00102	0.00116	0.00166
	(CKN * D * !SI)	0.00216	0.00229	0.00275
	(CKN * D * !SI)	-0.00009	-0.00008	-0.00007
	(CKN * D * !SI)	0.00007	0.00008	0.00010
	(CKN * D * !SI)	0.00288	0.00301	0.00348
	(CKN * !D * SI)	0.00128	0.00154	0.00244
	(CKN * !D * SI)	0.00014	0.00015	0.00015
	(CKN * !D * SI)	-0.00013	-0.00012	-0.00012
	(CKN * !D * SI)	0.00285	0.00310	0.00401
	(CKN * !D * !SI)	-0.00003	0.00011	0.00062
	(CKN * !D * !SI)	0.00001	0.00003	0.00003
	(CKN * !D * !SI)	-0.00002	-0.00002	-0.00002
	(CKN * !D * !SI)	0.00111	0.00125	0.00176
	(!CKN * D * SI)	-0.00013	0.00001	0.00051
	(!CKN * D * SI)	0.00003	0.00003	0.00003
	(!CKN * D * SI)	-0.00002	-0.00002	-0.00001
	(!CKN * D * SI)	0.00102	0.00116	0.00166
	(!CKN * D * !SI)	0.00116	0.00129	0.00175
	(!CKN * D * !SI)	-0.00009	-0.00009	-0.00008
	(!CKN * D * !SI)	0.00007	0.00008	0.00010
	(!CKN * D * !SI)	0.00182	0.00195	0.00241
	(!CKN * !D * SI)	-0.00020	0.00007	0.00104
	(!CKN * !D * SI)	0.00015	0.00015	0.00015
	(!CKN * !D * SI)	-0.00012	-0.00012	-0.00011
	(!CKN * !D * SI)	0.00143	0.00170	0.00267
	(!CKN * !D * !SI)	-0.00004	0.00011	0.00062
	(!CKN * !D * !SI)	0.00001	0.00003	0.00003
	(!CKN * !D * !SI)	-0.00002	-0.00002	-0.00001
	(!CKN * !D * !SI)	0.00111	0.00125	0.00176

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7R	**(CKN * D * SI)**	0.00104	0.00120	0.00175
	(CKN * D * SI)	-0.00003	-0.00003	-0.00002
	(CKN * D * SI)	0.00002	0.00002	0.00003
	(CKN * D * SI)	-0.00010	0.00006	0.00060
	(CKN * D * !SI)	0.00293	0.00309	0.00364
	(CKN * D * !SI)	0.00007	0.00008	0.00009
	(CKN * D * !SI)	-0.00009	-0.00008	-0.00007
	(CKN * D * !SI)	0.00219	0.00236	0.00291
	(CKN * !D * SI)	0.00262	0.00291	0.00388
	(CKN * !D * SI)	-0.00015	-0.00014	-0.00014
	(CKN * !D * SI)	0.00012	0.00012	0.00013
	(CKN * !D * SI)	0.00107	0.00135	0.00232
	(CKN * !D * !SI)	0.00094	0.00110	0.00164
	(CKN * !D * !SI)	-0.00003	-0.00003	-0.00001
	(CKN * !D * !SI)	0.00002	0.00002	0.00002
	(CKN * !D * !SI)	-0.00020	-0.00005	0.00050
	(!CKN * D * SI)	0.00104	0.00120	0.00175
	(!CKN * D * SI)	-0.00003	-0.00003	-0.00003
	(!CKN * D * SI)	0.00002	0.00002	0.00003
	(!CKN * D * SI)	-0.00011	0.00005	0.00060
	(!CKN * D * !SI)	0.00148	0.00163	0.00216
	(!CKN * D * !SI)	0.00008	0.00009	0.00009
	(!CKN * D * !SI)	-0.00009	-0.00008	-0.00007
	(!CKN * D * !SI)	0.00081	0.00096	0.00150
	(!CKN * !D * SI)	0.00162	0.00191	0.00294
	(!CKN * !D * SI)	-0.00015	-0.00015	-0.00015
	(!CKN * !D * SI)	0.00011	0.00012	0.00012
	(!CKN * !D * SI)	-0.00001	0.00029	0.00131
	(!CKN * !D * !SI)	0.00094	0.00110	0.00164
	(!CKN * !D * !SI)	-0.00003	-0.00003	-0.00001
	(!CKN * !D * !SI)	0.00001	0.00002	0.00002
	(!CKN * !D * !SI)	-0.00020	-0.00005	0.00050

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7R	**(CKN * D * SE)**	0.00142	0.00148	0.00168
	(CKN * D * SE)	0.00014	0.00014	0.00015
	(CKN * D * SE)	-0.00013	-0.00013	-0.00012
	(CKN * D * SE)	0.00234	0.00239	0.00259
	(CKN * D * !SE)	-0.00017	-0.00016	-0.00015
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * D * !SE)	0.00001	0.00001	0.00001
	(CKN * D * !SE)	0.00019	0.00019	0.00020
	(CKN * !D * SE)	0.00142	0.00147	0.00168
	(CKN * !D * SE)	0.00014	0.00015	0.00015
	(CKN * !D * SE)	-0.00013	-0.00013	-0.00012
	(CKN * !D * SE)	0.00233	0.00239	0.00258
	(CKN * !D * !SE)	-0.00018	-0.00017	-0.00017
	(CKN * !D * !SE)	-0.00002	-0.00001	-0.00001
	(CKN * !D * !SE)	0.00001	0.00001	0.00001
	(CKN * !D * !SE)	0.00018	0.00018	0.00018
	(!CKN * D * SE)	-0.00005	0.00000	0.00021
	(!CKN * D * SE)	0.00015	0.00015	0.00015
	(!CKN * D * SE)	-0.00012	-0.00012	-0.00011
	(!CKN * D * SE)	0.00092	0.00098	0.00118
	(!CKN * D * !SE)	-0.00017	-0.00016	-0.00015
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	0.00001	0.00001	0.00001
	(!CKN * D * !SE)	0.00019	0.00019	0.00020
	(!CKN * !D * SE)	-0.00005	0.00001	0.00021
	(!CKN * !D * SE)	0.00014	0.00015	0.00015
	(!CKN * !D * SE)	-0.00012	-0.00012	-0.00011
	(!CKN * !D * SE)	0.00092	0.00097	0.00118
	(!CKN * !D * !SE)	-0.00018	-0.00017	-0.00017
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	0.00018	0.00018	0.00018

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX1H7R	**(CKN * D * SE)**	0.00241	0.00247	0.00269
	(CKN * D * SE)	-0.00014	-0.00014	-0.00014
	(CKN * D * SE)	0.00012	0.00013	0.00013
	(CKN * D * SE)	0.00150	0.00156	0.00179
	(CKN * D * !SE)	0.00017	0.00017	0.00017
	(CKN * D * !SE)	0.00001	0.00001	0.00001
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * D * !SE)	-0.00019	-0.00018	-0.00018
	(CKN * !D * SE)	0.00241	0.00247	0.00269
	(CKN * !D * SE)	-0.00015	-0.00014	-0.00014
	(CKN * !D * SE)	0.00012	0.00013	0.00013
	(CKN * !D * SE)	0.00150	0.00156	0.00179
	(CKN * !D * !SE)	0.00018	0.00018	0.00019
	(CKN * !D * !SE)	0.00001	0.00001	0.00002
	(CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * !D * !SE)	-0.00018	-0.00017	-0.00016
	(!CKN * D * SE)	0.00140	0.00146	0.00168
	(!CKN * D * SE)	-0.00015	-0.00015	-0.00015
	(!CKN * D * SE)	0.00011	0.00012	0.00012
	(!CKN * D * SE)	0.00043	0.00049	0.00071
	(!CKN * D * !SE)	0.00017	0.00017	0.00017
	(!CKN * D * !SE)	0.00001	0.00001	0.00001
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	-0.00019	-0.00018	-0.00018
	(!CKN * !D * SE)	0.00140	0.00146	0.00168
	(!CKN * !D * SE)	-0.00015	-0.00015	-0.00014
	(!CKN * !D * SE)	0.00011	0.00012	0.00012
	(!CKN * !D * SE)	0.00044	0.00049	0.00071
	(!CKN * !D * !SE)	0.00018	0.00018	0.00019
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	-0.00018	-0.00017	-0.00016

SDFFNX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop
Q = falling (CKN) ? (SE& SI ! SE&D) : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
CKN	D	SE	SI	Q	QN
F	0	0	x	0	1
F	x	1	0	0	1
F	x	1	1	1	0
F	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNX2H7R	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CKN	D	SE	SI	Q	QN
SDFFNX2H7R	0.00099	0.00065	0.00186	0.00073	0.08116	0.08111

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNX2H7R	0.00000	1.30139	1.71622

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX2H7R	CKN->Q (FR)	0.07037	0.22880	0.60912

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX2H7R	CKN->Q (FF)	0.10945	0.24647	0.55867

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX2H7R	CKN->QN (FR)	0.13728	0.29091	0.66717

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX2H7R	CKN->QN (FF)	0.09799	0.22859	0.53843

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7R	**hold**	**CKN (F)**	-0.11637	-0.01507	0.08469
	setup	**CKN (F)**	-0.05876	0.04543	0.15323

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7R	**hold**	**CKN (F)**	-0.16446	-0.06865	0.00608
	setup	**CKN (F)**	0.00418	0.08458	0.19294

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7R	**hold**	**CKN (F)**	-0.08392	-0.00085	0.09243
	setup	**CKN (F)**	0.02651	0.08467	0.14131

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7R	**hold**	**CKN (F)**	-0.12392	-0.02822	0.06722
	setup	**CKN (F)**	-0.00458	0.07324	0.17146

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7R	hold	CKN (F)	-0.11312	-0.01418	0.08686
	setup	CKN (F)	-0.05975	0.04426	0.15059

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX2H7R	hold	CKN (F)	-0.17423	-0.07566	-0.00333
	setup	CKN (F)	0.01212	0.09249	0.20173

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX2H7R	CKN	0.00212	0.00223	0.00248
	CKN	0.00003	0.00006	0.00009
	CKN	-0.00005	-0.00003	-0.00001
	CKN	0.00191	0.00201	0.00226

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX2H7R	CKN	0.00239	0.00249	0.00272
	CKN	-0.00006	-0.00003	-0.00002
	CKN	0.00003	0.00005	0.00007
	CKN	0.00198	0.00208	0.00233

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX2H7R	CKN	0.00240	0.00249	0.00273
	CKN	-0.00003	-0.00003	-0.00003
	CKN	0.00005	0.00005	0.00005
	CKN	0.00200	0.00208	0.00233

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX2H7R	CKN	0.00213	0.00223	0.00249
	CKN	0.00004	0.00006	0.00006
	CKN	-0.00005	-0.00003	-0.00003
	CKN	0.00191	0.00200	0.00228

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7R	**(D * SE * SI)**	0.00320	0.00334	0.00382
	(D * SE * SI)	-0.00002	-0.00001	-0.00001
	(D * SE * SI)	-0.00001	-0.00000	0.00000
	(D * SE * SI)	0.00386	0.00399	0.00447
	(D * SE * !SI)	0.00282	0.00293	0.00336
	(D * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * SE * !SI)	-0.00001	0.00000	0.00001
	(D * SE * !SI)	0.00340	0.00352	0.00395
	(D * !SE * SI)	0.00320	0.00334	0.00382
	(D * !SE * SI)	-0.00002	-0.00001	-0.00001
	(D * !SE * SI)	-0.00001	-0.00000	0.00000
	(D * !SE * SI)	0.00386	0.00399	0.00447
	(D * !SE * !SI)	0.00320	0.00334	0.00382
	(D * !SE * !SI)	-0.00002	-0.00001	-0.00001
	(D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(D * !SE * !SI)	0.00386	0.00399	0.00447
	(!D * SE * SI)	0.00320	0.00334	0.00382
	(!D * SE * SI)	-0.00002	-0.00001	-0.00001
	(!D * SE * SI)	-0.00001	-0.00000	0.00000
	(!D * SE * SI)	0.00386	0.00399	0.00447
	(!D * SE * !SI)	0.00282	0.00293	0.00336
	(!D * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * SE * !SI)	-0.00001	-0.00000	0.00001
	(!D * SE * !SI)	0.00341	0.00352	0.00395
	(!D * !SE * SI)	0.00281	0.00294	0.00336
	(!D * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * SI)	-0.00000	0.00000	0.00001
	(!D * !SE * SI)	0.00340	0.00352	0.00395
	(!D * !SE * !SI)	0.00281	0.00294	0.00336
	(!D * !SE * !SI)	-0.00001	-0.00000	-0.00000
	(!D * !SE * !SI)	-0.00001	-0.00000	0.00001
	(!D * !SE * !SI)	0.00341	0.00352	0.00395

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7R	**(D * SE * SI)**	0.00218	0.00229	0.00273
	(D * SE * SI)	0.00002	0.00002	0.00003
	(D * SE * SI)	0.00000	0.00000	0.00001
	(D * SE * SI)	0.00156	0.00168	0.00212
	(D * SE * !SI)	0.00235	0.00247	0.00291
	(D * SE * !SI)	0.00000	0.00000	0.00001
	(D * SE * !SI)	0.00002	0.00003	0.00003
	(D * SE * !SI)	0.00169	0.00181	0.00225
	(D * !SE * SI)	0.00218	0.00229	0.00273
	(D * !SE * SI)	0.00002	0.00002	0.00003
	(D * !SE * SI)	0.00000	0.00000	0.00001
	(D * !SE * SI)	0.00156	0.00168	0.00212
	(D * !SE * !SI)	0.00218	0.00230	0.00273
	(D * !SE * !SI)	0.00002	0.00002	0.00003
	(D * !SE * !SI)	0.00000	0.00000	0.00001
	(D * !SE * !SI)	0.00156	0.00168	0.00212
	(!D * SE * SI)	0.00218	0.00229	0.00273
	(!D * SE * SI)	0.00002	0.00002	0.00003
	(!D * SE * SI)	0.00000	0.00000	0.00001
	(!D * SE * SI)	0.00156	0.00168	0.00212
	(!D * SE * !SI)	0.00235	0.00247	0.00291
	(!D * SE * !SI)	0.00000	0.00000	0.00001
	(!D * SE * !SI)	0.00002	0.00003	0.00003
	(!D * SE * !SI)	0.00169	0.00181	0.00225
	(!D * !SE * SI)	0.00235	0.00247	0.00291
	(!D * !SE * SI)	0.00000	0.00000	0.00001
	(!D * !SE * SI)	0.00002	0.00003	0.00003
	(!D * !SE * SI)	0.00169	0.00181	0.00225
	(!D * !SE * !SI)	0.00235	0.00247	0.00291
	(!D * !SE * !SI)	0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00002	0.00003	0.00003
	(!D * !SE * !SI)	0.00170	0.00181	0.00225

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7R	**(CKN * SE * SI)**	-0.00011	-0.00010	-0.00009
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * SI)	0.00001	0.00001	0.00001
	(CKN * SE * SI)	0.00026	0.00026	0.00026
	(CKN * SE * !SI)	-0.00011	-0.00010	-0.00009
	(CKN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(CKN * SE * !SI)	0.00001	0.00001	0.00001
	(CKN * SE * !SI)	0.00026	0.00026	0.00026
	(CKN * !SE * SI)	0.00176	0.00182	0.00203
	(CKN * !SE * SI)	0.00014	0.00014	0.00015
	(CKN * !SE * SI)	-0.00012	-0.00012	-0.00012
	(CKN * !SE * SI)	0.00269	0.00275	0.00296
	(CKN * !SE * !SI)	0.00175	0.00182	0.00203
	(CKN * !SE * !SI)	0.00014	0.00014	0.00015
	(CKN * !SE * !SI)	-0.00013	-0.00012	-0.00012
	(CKN * !SE * !SI)	0.00269	0.00275	0.00296
	(!CKN * SE * SI)	-0.00011	-0.00010	-0.00009
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * SI)	0.00001	0.00001	0.00002
	(!CKN * SE * SI)	0.00026	0.00026	0.00027
	(!CKN * SE * !SI)	-0.00011	-0.00010	-0.00009
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	0.00026	0.00026	0.00026
	(!CKN * !SE * SI)	0.00026	0.00032	0.00054
	(!CKN * !SE * SI)	0.00015	0.00016	0.00016
	(!CKN * !SE * SI)	-0.00012	-0.00012	-0.00012
	(!CKN * !SE * SI)	0.00127	0.00132	0.00153
	(!CKN * !SE * !SI)	0.00027	0.00032	0.00054
	(!CKN * !SE * !SI)	0.00015	0.00016	0.00016
	(!CKN * !SE * !SI)	-0.00012	-0.00012	-0.00012
	(!CKN * !SE * !SI)	0.00127	0.00132	0.00153

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7R	**(CKN * SE * SI)**	0.00011	0.00012	0.00012
	(CKN * SE * SI)	0.00001	0.00001	0.00001
	(CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * SI)	-0.00026	-0.00025	-0.00025
	(CKN * SE * !SI)	0.00011	0.00012	0.00012
	(CKN * SE * !SI)	0.00001	0.00001	0.00002
	(CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * !SI)	-0.00026	-0.00025	-0.00024
	(CKN * !SE * SI)	0.00215	0.00222	0.00246
	(CKN * !SE * SI)	-0.00015	-0.00014	-0.00014
	(CKN * !SE * SI)	0.00012	0.00012	0.00012
	(CKN * !SE * SI)	0.00123	0.00129	0.00153
	(CKN * !SE * !SI)	0.00216	0.00222	0.00246
	(CKN * !SE * !SI)	-0.00015	-0.00014	-0.00014
	(CKN * !SE * !SI)	0.00012	0.00012	0.00013
	(CKN * !SE * !SI)	0.00123	0.00129	0.00153
	(!CKN * SE * SI)	0.00011	0.00012	0.00012
	(!CKN * SE * SI)	0.00001	0.00001	0.00001
	(!CKN * SE * SI)	-0.00002	-0.00001	-0.00001
	(!CKN * SE * SI)	-0.00026	-0.00025	-0.00024
	(!CKN * SE * !SI)	0.00011	0.00012	0.00012
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	-0.00026	-0.00025	-0.00024
	(!CKN * !SE * SI)	0.00112	0.00118	0.00141
	(!CKN * !SE * SI)	-0.00016	-0.00016	-0.00015
	(!CKN * !SE * SI)	0.00012	0.00012	0.00012
	(!CKN * !SE * SI)	0.00011	0.00017	0.00041
	(!CKN * !SE * !SI)	0.00112	0.00118	0.00141
	(!CKN * !SE * !SI)	-0.00016	-0.00016	-0.00015
	(!CKN * !SE * !SI)	0.00012	0.00012	0.00012
	(!CKN * !SE * !SI)	0.00011	0.00017	0.00041

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7R	**(CKN * D * SI)**	-0.00013	0.00001	0.00051
	(CKN * D * SI)	0.00003	0.00003	0.00003
	(CKN * D * SI)	-0.00002	-0.00002	-0.00000
	(CKN * D * SI)	0.00102	0.00115	0.00166
	(CKN * D * !SI)	0.00220	0.00233	0.00280
	(CKN * D * !SI)	-0.00008	-0.00007	-0.00007
	(CKN * D * !SI)	0.00007	0.00008	0.00009
	(CKN * D * !SI)	0.00293	0.00307	0.00354
	(CKN * !D * SI)	0.00131	0.00156	0.00247
	(CKN * !D * SI)	0.00014	0.00014	0.00014
	(CKN * !D * SI)	-0.00013	-0.00012	-0.00010
	(CKN * !D * SI)	0.00287	0.00313	0.00404
	(CKN * !D * !SI)	-0.00004	0.00010	0.00061
	(CKN * !D * !SI)	0.00003	0.00003	0.00004
	(CKN * !D * !SI)	-0.00002	-0.00002	-0.00002
	(CKN * !D * !SI)	0.00110	0.00125	0.00176
	(!CKN * D * SI)	-0.00013	0.00001	0.00051
	(!CKN * D * SI)	0.00003	0.00003	0.00003
	(!CKN * D * SI)	-0.00003	-0.00002	-0.00002
	(!CKN * D * SI)	0.00102	0.00116	0.00166
	(!CKN * D * !SI)	0.00117	0.00130	0.00176
	(!CKN * D * !SI)	-0.00009	-0.00009	-0.00008
	(!CKN * D * !SI)	0.00006	0.00007	0.00007
	(!CKN * D * !SI)	0.00182	0.00196	0.00241
	(!CKN * !D * SI)	-0.00020	0.00007	0.00103
	(!CKN * !D * SI)	0.00015	0.00015	0.00015
	(!CKN * !D * SI)	-0.00012	-0.00012	-0.00011
	(!CKN * !D * SI)	0.00143	0.00171	0.00267
	(!CKN * !D * !SI)	-0.00004	0.00010	0.00061
	(!CKN * !D * !SI)	0.00003	0.00003	0.00004
	(!CKN * !D * !SI)	-0.00002	-0.00002	-0.00002
	(!CKN * !D * !SI)	0.00110	0.00125	0.00176

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7R	**(CKN * D * SI)**	0.00104	0.00120	0.00175
	(CKN * D * SI)	-0.00003	-0.00003	-0.00002
	(CKN * D * SI)	0.00001	0.00002	0.00003
	(CKN * D * SI)	-0.00011	0.00006	0.00060
	(CKN * D * !SI)	0.00295	0.00311	0.00367
	(CKN * D * !SI)	0.00007	0.00007	0.00008
	(CKN * D * !SI)	-0.00008	-0.00007	-0.00007
	(CKN * D * !SI)	0.00222	0.00238	0.00294
	(CKN * !D * SI)	0.00268	0.00296	0.00394
	(CKN * !D * SI)	-0.00014	-0.00014	-0.00013
	(CKN * !D * SI)	0.00010	0.00012	0.00013
	(CKN * !D * SI)	0.00112	0.00140	0.00238
	(CKN * !D * !SI)	0.00095	0.00110	0.00165
	(CKN * !D * !SI)	-0.00003	-0.00003	-0.00001
	(CKN * !D * !SI)	0.00002	0.00002	0.00003
	(CKN * !D * !SI)	-0.00020	-0.00004	0.00050
	(!CKN * D * SI)	0.00104	0.00120	0.00175
	(!CKN * D * SI)	-0.00003	-0.00003	-0.00003
	(!CKN * D * SI)	0.00002	0.00002	0.00003
	(!CKN * D * SI)	-0.00011	0.00005	0.00060
	(!CKN * D * !SI)	0.00148	0.00163	0.00216
	(!CKN * D * !SI)	0.00009	0.00009	0.00010
	(!CKN * D * !SI)	-0.00007	-0.00007	-0.00006
	(!CKN * D * !SI)	0.00083	0.00098	0.00152
	(!CKN * !D * SI)	0.00163	0.00192	0.00295
	(!CKN * !D * SI)	-0.00015	-0.00015	-0.00015
	(!CKN * !D * SI)	0.00011	0.00012	0.00012
	(!CKN * !D * SI)	-0.00000	0.00029	0.00131
	(!CKN * !D * !SI)	0.00095	0.00111	0.00165
	(!CKN * !D * !SI)	-0.00004	-0.00003	-0.00003
	(!CKN * !D * !SI)	0.00002	0.00002	0.00002
	(!CKN * !D * !SI)	-0.00020	-0.00004	0.00050

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7R	**(CKN * D * SE)**	0.00145	0.00150	0.00171
	(CKN * D * SE)	0.00013	0.00014	0.00014
	(CKN * D * SE)	-0.00014	-0.00013	-0.00012
	(CKN * D * SE)	0.00236	0.00242	0.00262
	(CKN * D * !SE)	-0.00016	-0.00016	-0.00015
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * D * !SE)	0.00001	0.00001	0.00001
	(CKN * D * !SE)	0.00020	0.00020	0.00020
	(CKN * !D * SE)	0.00145	0.00150	0.00171
	(CKN * !D * SE)	0.00014	0.00014	0.00014
	(CKN * !D * SE)	-0.00013	-0.00012	-0.00012
	(CKN * !D * SE)	0.00236	0.00241	0.00262
	(CKN * !D * !SE)	-0.00018	-0.00017	-0.00016
	(CKN * !D * !SE)	-0.00002	-0.00001	-0.00001
	(CKN * !D * !SE)	0.00001	0.00001	0.00001
	(CKN * !D * !SE)	0.00019	0.00019	0.00019
	(!CKN * D * SE)	-0.00005	0.00000	0.00021
	(!CKN * D * SE)	0.00015	0.00015	0.00015
	(!CKN * D * SE)	-0.00012	-0.00012	-0.00012
	(!CKN * D * SE)	0.00094	0.00099	0.00119
	(!CKN * D * !SE)	-0.00016	-0.00016	-0.00015
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	0.00001	0.00001	0.00001
	(!CKN * D * !SE)	0.00020	0.00020	0.00020
	(!CKN * !D * SE)	-0.00005	0.00000	0.00021
	(!CKN * !D * SE)	0.00015	0.00015	0.00015
	(!CKN * !D * SE)	-0.00012	-0.00012	-0.00012
	(!CKN * !D * SE)	0.00094	0.00099	0.00119
	(!CKN * !D * !SE)	-0.00018	-0.00017	-0.00016
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	0.00019	0.00019	0.00019

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX2H7R	**(CKN * D * SE)**	0.00246	0.00252	0.00275
	(CKN * D * SE)	-0.00014	-0.00014	-0.00013
	(CKN * D * SE)	0.00012	0.00013	0.00014
	(CKN * D * SE)	0.00155	0.00161	0.00185
	(CKN * D * !SE)	0.00017	0.00017	0.00017
	(CKN * D * !SE)	0.00001	0.00001	0.00001
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * D * !SE)	-0.00020	-0.00019	-0.00018
	(CKN * !D * SE)	0.00246	0.00252	0.00275
	(CKN * !D * SE)	-0.00014	-0.00014	-0.00013
	(CKN * !D * SE)	0.00012	0.00013	0.00014
	(CKN * !D * SE)	0.00155	0.00161	0.00184
	(CKN * !D * !SE)	0.00018	0.00018	0.00019
	(CKN * !D * !SE)	0.00001	0.00001	0.00002
	(CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * !D * !SE)	-0.00018	-0.00018	-0.00016
	(!CKN * D * SE)	0.00142	0.00147	0.00169
	(!CKN * D * SE)	-0.00015	-0.00015	-0.00015
	(!CKN * D * SE)	0.00012	0.00012	0.00012
	(!CKN * D * SE)	0.00043	0.00049	0.00071
	(!CKN * D * !SE)	0.00017	0.00017	0.00017
	(!CKN * D * !SE)	0.00001	0.00001	0.00001
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	-0.00020	-0.00019	-0.00019
	(!CKN * !D * SE)	0.00142	0.00147	0.00169
	(!CKN * !D * SE)	-0.00015	-0.00015	-0.00015
	(!CKN * !D * SE)	0.00012	0.00012	0.00012
	(!CKN * !D * SE)	0.00043	0.00049	0.00071
	(!CKN * !D * !SE)	0.00018	0.00018	0.00019
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	-0.00018	-0.00018	-0.00017

SDFFNX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop
Q = falling (CKN) ? (SE& SI ! SE&D) : pre_Q
QN = !Q

Truth Table

INPUT				OUTPUT	
CKN	D	SE	SI	Q	QN
F	0	0	x	0	1
F	x	1	0	0	1
F	x	1	1	1	0
F	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFNX3H7R	10.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CKN	D	SE	SI	Q	QN
SDFFNX3H7R	0.00105	0.00071	0.00202	0.00073	0.12635	0.12654

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFNX3H7R	0.00000	1.57838	2.03624

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX3H7R	CKN->Q (FR)	0.06861	0.22802	0.60757

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX3H7R	CKN->Q (FF)	0.10658	0.24535	0.55674

Delay(ns) to QN rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX3H7R	CKN->QN (FR)	0.14572	0.29751	0.67059

Delay(ns) to QN falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFNX3H7R	CKN->QN (FF)	0.10675	0.23758	0.54729

Constraint Information

Min Pulse Width (ns) for CKN:

Cell Name	High	Low
SDFFNX3H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7R	**hold**	**CKN (F)**	-0.11210	-0.01599	0.07850
	setup	**CKN (F)**	-0.05593	0.04399	0.14661

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7R	**hold**	**CKN (F)**	-0.15605	-0.06492	0.00425
	setup	**CKN (F)**	0.00605	0.07970	0.18391

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7R	**hold**	**CKN (F)**	-0.09697	-0.01027	0.08268
	setup	**CKN (F)**	0.03105	0.08660	0.13970

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7R	**hold**	**CKN (F)**	-0.11818	-0.02576	0.06448
	setup	**CKN (F)**	-0.00763	0.06771	0.15989

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7R	hold	CKN (F)	-0.12302	-0.02215	0.07705
	setup	CKN (F)	-0.05171	0.05060	0.15962

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFNX3H7R	hold	CKN (F)	-0.17796	-0.08045	-0.01006
	setup	CKN (F)	0.02203	0.09752	0.20773

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX3H7R	CKN	0.00256	0.00271	0.00302
	CKN	0.00006	0.00007	0.00010
	CKN	-0.00004	-0.00003	-0.00002
	CKN	0.00234	0.00247	0.00279

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX3H7R	CKN	0.00290	0.00302	0.00333
	CKN	-0.00004	-0.00003	-0.00002
	CKN	0.00004	0.00006	0.00008
	CKN	0.00246	0.00259	0.00292

Internal switching power(pJ) to QN rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX3H7R	CKN	0.00291	0.00302	0.00333
	CKN	-0.00003	-0.00003	-0.00003
	CKN	0.00005	0.00006	0.00006
	CKN	0.00248	0.00259	0.00291

Internal switching power(pJ) to QN falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFNX3H7R	CKN	0.00257	0.00271	0.00301
	CKN	0.00004	0.00006	0.00007
	CKN	-0.00003	-0.00003	-0.00002
	CKN	0.00232	0.00246	0.00278

Passive power(pJ) for CKN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7R	**(D * SE * SI)**	0.00326	0.00343	0.00400
	(D * SE * SI)	-0.00002	-0.00001	0.00000
	(D * SE * SI)	-0.00001	-0.00000	0.00000
	(D * SE * SI)	0.00398	0.00414	0.00471
	(D * SE * !SI)	0.00297	0.00310	0.00360
	(D * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * SE * !SI)	-0.00000	0.00000	0.00001
	(D * SE * !SI)	0.00358	0.00373	0.00422
	(D * !SE * SI)	0.00328	0.00343	0.00400
	(D * !SE * SI)	-0.00002	-0.00001	-0.00001
	(D * !SE * SI)	-0.00001	-0.00000	0.00000
	(D * !SE * SI)	0.00398	0.00414	0.00471
	(D * !SE * !SI)	0.00328	0.00343	0.00400
	(D * !SE * !SI)	-0.00002	-0.00001	-0.00001
	(D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(D * !SE * !SI)	0.00398	0.00414	0.00471
	(!D * SE * SI)	0.00326	0.00343	0.00400
	(!D * SE * SI)	-0.00002	-0.00001	0.00000
	(!D * SE * SI)	-0.00001	-0.00000	0.00000
	(!D * SE * SI)	0.00399	0.00414	0.00471
	(!D * SE * !SI)	0.00297	0.00310	0.00360
	(!D * SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * SE * !SI)	-0.00000	0.00000	0.00001
	(!D * SE * !SI)	0.00358	0.00373	0.00422
	(!D * !SE * SI)	0.00297	0.00310	0.00361
	(!D * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * SI)	-0.00000	0.00000	0.00002
	(!D * !SE * SI)	0.00359	0.00372	0.00423
	(!D * !SE * !SI)	0.00297	0.00310	0.00361
	(!D * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * !SE * !SI)	-0.00001	0.00000	0.00002
	(!D * !SE * !SI)	0.00359	0.00373	0.00423

Passive power(pJ) for CKN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7R	**(D * SE * SI)**	0.00230	0.00244	0.00297
	(D * SE * SI)	0.00002	0.00002	0.00003
	(D * SE * SI)	0.00000	0.00000	0.00001
	(D * SE * SI)	0.00163	0.00178	0.00230
	(D * SE * !SI)	0.00246	0.00261	0.00312
	(D * SE * !SI)	0.00000	0.00000	0.00001
	(D * SE * !SI)	0.00002	0.00003	0.00003
	(D * SE * !SI)	0.00175	0.00190	0.00242
	(D * !SE * SI)	0.00230	0.00244	0.00297
	(D * !SE * SI)	0.00002	0.00002	0.00003
	(D * !SE * SI)	0.00000	0.00000	0.00001
	(D * !SE * SI)	0.00163	0.00178	0.00230
	(D * !SE * !SI)	0.00230	0.00244	0.00297
	(D * !SE * !SI)	0.00002	0.00002	0.00003
	(D * !SE * !SI)	0.00000	0.00000	0.00001
	(D * !SE * !SI)	0.00163	0.00178	0.00230
	(!D * SE * SI)	0.00230	0.00244	0.00297
	(!D * SE * SI)	0.00002	0.00002	0.00003
	(!D * SE * SI)	0.00000	0.00000	0.00001
	(!D * SE * SI)	0.00163	0.00178	0.00230
	(!D * SE * !SI)	0.00246	0.00261	0.00312
	(!D * SE * !SI)	0.00000	0.00000	0.00001
	(!D * SE * !SI)	0.00002	0.00002	0.00003
	(!D * SE * !SI)	0.00175	0.00190	0.00242
	(!D * !SE * SI)	0.00247	0.00261	0.00312
	(!D * !SE * SI)	0.00000	0.00000	0.00001
	(!D * !SE * SI)	0.00002	0.00002	0.00003
	(!D * !SE * SI)	0.00176	0.00190	0.00242
	(!D * !SE * !SI)	0.00247	0.00261	0.00312
	(!D * !SE * !SI)	0.00000	0.00000	0.00001
	(!D * !SE * !SI)	0.00002	0.00002	0.00003
	(!D * !SE * !SI)	0.00176	0.00190	0.00242

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7R	**(CKN * SE * SI)**	-0.00013	-0.00012	-0.00010
	(CKN * SE * SI)	-0.00001	-0.00002	-0.00001
	(CKN * SE * SI)	0.00001	0.00001	0.00002
	(CKN * SE * SI)	0.00027	0.00027	0.00028
	(CKN * SE * !SI)	-0.00013	-0.00012	-0.00011
	(CKN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CKN * SE * !SI)	0.00001	0.00001	0.00001
	(CKN * SE * !SI)	0.00028	0.00028	0.00028
	(CKN * !SE * SI)	0.00181	0.00187	0.00211
	(CKN * !SE * SI)	0.00017	0.00017	0.00018
	(CKN * !SE * SI)	-0.00015	-0.00014	-0.00014
	(CKN * !SE * SI)	0.00286	0.00293	0.00317
	(CKN * !SE * !SI)	0.00181	0.00187	0.00211
	(CKN * !SE * !SI)	0.00017	0.00017	0.00017
	(CKN * !SE * !SI)	-0.00016	-0.00015	-0.00014
	(CKN * !SE * !SI)	0.00286	0.00293	0.00317
	(!CKN * SE * SI)	-0.00013	-0.00012	-0.00011
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * SI)	0.00001	0.00001	0.00001
	(!CKN * SE * SI)	0.00027	0.00027	0.00028
	(!CKN * SE * !SI)	-0.00013	-0.00012	-0.00011
	(!CKN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CKN * SE * !SI)	0.00001	0.00001	0.00001
	(!CKN * SE * !SI)	0.00027	0.00028	0.00028
	(!CKN * !SE * SI)	0.00028	0.00034	0.00059
	(!CKN * !SE * SI)	0.00017	0.00018	0.00019
	(!CKN * !SE * SI)	-0.00014	-0.00014	-0.00013
	(!CKN * !SE * SI)	0.00140	0.00146	0.00171
	(!CKN * !SE * !SI)	0.00028	0.00034	0.00059
	(!CKN * !SE * !SI)	0.00018	0.00018	0.00018
	(!CKN * !SE * !SI)	-0.00014	-0.00014	-0.00013
	(!CKN * !SE * !SI)	0.00140	0.00147	0.00171

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7R	**(CKN * SE * SI)**	0.00014	0.00014	0.00014
	(CKN * SE * SI)	0.00001	0.00002	0.00001
	(CKN * SE * SI)	-0.00002	-0.00001	-0.00001
	(CKN * SE * SI)	-0.00027	-0.00026	-0.00026
	(CKN * SE * !SI)	0.00013	0.00014	0.00014
	(CKN * SE * !SI)	0.00002	0.00002	0.00002
	(CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CKN * SE * !SI)	-0.00027	-0.00026	-0.00025
	(CKN * !SE * SI)	0.00234	0.00242	0.00269
	(CKN * !SE * SI)	-0.00018	-0.00017	-0.00017
	(CKN * !SE * SI)	0.00014	0.00014	0.00015
	(CKN * !SE * SI)	0.00129	0.00135	0.00163
	(CKN * !SE * !SI)	0.00235	0.00242	0.00269
	(CKN * !SE * !SI)	-0.00017	-0.00017	-0.00017
	(CKN * !SE * !SI)	0.00014	0.00015	0.00016
	(CKN * !SE * !SI)	0.00128	0.00135	0.00163
	(!CKN * SE * SI)	0.00013	0.00014	0.00014
	(!CKN * SE * SI)	0.00001	0.00001	0.00001
	(!CKN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * SI)	-0.00027	-0.00026	-0.00025
	(!CKN * SE * !SI)	0.00013	0.00014	0.00014
	(!CKN * SE * !SI)	0.00002	0.00002	0.00002
	(!CKN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CKN * SE * !SI)	-0.00027	-0.00026	-0.00025
	(!CKN * !SE * SI)	0.00125	0.00131	0.00159
	(!CKN * !SE * SI)	-0.00019	-0.00018	-0.00017
	(!CKN * !SE * SI)	0.00013	0.00014	0.00014
	(!CKN * !SE * SI)	0.00012	0.00019	0.00046
	(!CKN * !SE * !SI)	0.00125	0.00131	0.00158
	(!CKN * !SE * !SI)	-0.00018	-0.00018	-0.00018
	(!CKN * !SE * !SI)	0.00013	0.00014	0.00014
	(!CKN * !SE * !SI)	0.00012	0.00019	0.00046

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7R	**(CKN * D * SI)**	-0.00015	0.00002	0.00061
	(CKN * D * SI)	0.00003	0.00003	0.00003
	(CKN * D * SI)	-0.00004	-0.00003	-0.00002
	(CKN * D * SI)	0.00109	0.00126	0.00185
	(CKN * D * !SI)	0.00233	0.00248	0.00304
	(CKN * D * !SI)	-0.00010	-0.00009	-0.00008
	(CKN * D * !SI)	0.00008	0.00009	0.00009
	(CKN * D * !SI)	0.00310	0.00325	0.00381
	(CKN * !D * SI)	0.00131	0.00160	0.00263
	(CKN * !D * SI)	0.00014	0.00016	0.00017
	(CKN * !D * SI)	-0.00015	-0.00014	-0.00013
	(CKN * !D * SI)	0.00303	0.00332	0.00436
	(CKN * !D * !SI)	-0.00008	0.00009	0.00069
	(CKN * !D * !SI)	0.00003	0.00003	0.00004
	(CKN * !D * !SI)	-0.00003	-0.00003	-0.00002
	(CKN * !D * !SI)	0.00117	0.00134	0.00195
	(!CKN * D * SI)	-0.00015	0.00002	0.00061
	(!CKN * D * SI)	0.00003	0.00003	0.00003
	(!CKN * D * SI)	-0.00003	-0.00002	-0.00001
	(!CKN * D * SI)	0.00109	0.00125	0.00185
	(!CKN * D * !SI)	0.00123	0.00138	0.00193
	(!CKN * D * !SI)	-0.00010	-0.00010	-0.00009
	(!CKN * D * !SI)	0.00006	0.00008	0.00010
	(!CKN * D * !SI)	0.00193	0.00209	0.00262
	(!CKN * !D * SI)	-0.00023	0.00007	0.00116
	(!CKN * !D * SI)	0.00017	0.00017	0.00017
	(!CKN * !D * SI)	-0.00013	-0.00013	-0.00011
	(!CKN * !D * SI)	0.00155	0.00186	0.00295
	(!CKN * !D * !SI)	-0.00008	0.00009	0.00070
	(!CKN * !D * !SI)	0.00003	0.00004	0.00005
	(!CKN * !D * !SI)	-0.00003	-0.00003	-0.00002
	(!CKN * !D * !SI)	0.00117	0.00134	0.00195

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7R	**(CKN * D * SI)**	0.00112	0.00130	0.00195
	(CKN * D * SI)	-0.00003	-0.00003	-0.00003
	(CKN * D * SI)	0.00002	0.00003	0.00004
	(CKN * D * SI)	-0.00011	0.00007	0.00071
	(CKN * D * !SI)	0.00307	0.00327	0.00394
	(CKN * D * !SI)	0.00009	0.00010	0.00012
	(CKN * D * !SI)	-0.00009	-0.00009	-0.00008
	(CKN * D * !SI)	0.00231	0.00251	0.00317
	(CKN * !D * SI)	0.00287	0.00320	0.00432
	(CKN * !D * SI)	-0.00017	-0.00016	-0.00014
	(CKN * !D * SI)	0.00013	0.00014	0.00016
	(CKN * !D * SI)	0.00117	0.00149	0.00260
	(CKN * !D * !SI)	0.00103	0.00122	0.00186
	(CKN * !D * !SI)	-0.00004	-0.00003	-0.00003
	(CKN * !D * !SI)	0.00003	0.00003	0.00003
	(CKN * !D * !SI)	-0.00021	-0.00003	0.00061
	(!CKN * D * SI)	0.00111	0.00130	0.00195
	(!CKN * D * SI)	-0.00003	-0.00003	-0.00003
	(!CKN * D * SI)	0.00001	0.00002	0.00003
	(!CKN * D * SI)	-0.00012	0.00007	0.00071
	(!CKN * D * !SI)	0.00158	0.00177	0.00241
	(!CKN * D * !SI)	0.00009	0.00010	0.00010
	(!CKN * D * !SI)	-0.00010	-0.00008	-0.00006
	(!CKN * D * !SI)	0.00088	0.00106	0.00171
	(!CKN * !D * SI)	0.00176	0.00211	0.00327
	(!CKN * !D * SI)	-0.00017	-0.00017	-0.00016
	(!CKN * !D * SI)	0.00012	0.00013	0.00014
	(!CKN * !D * SI)	-0.00001	0.00033	0.00149
	(!CKN * !D * !SI)	0.00103	0.00122	0.00186
	(!CKN * !D * !SI)	-0.00004	-0.00003	-0.00003
	(!CKN * !D * !SI)	0.00003	0.00003	0.00003
	(!CKN * !D * !SI)	-0.00022	-0.00003	0.00061

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFNX3H7R	**(CKN * D * SE)**	0.00149	0.00154	0.00174
	(CKN * D * SE)	0.00015	0.00015	0.00016
	(CKN * D * SE)	-0.00014	-0.00013	-0.00013
	(CKN * D * SE)	0.00245	0.00250	0.00270
	(CKN * D * !SE)	-0.00015	-0.00015	-0.00014
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * D * !SE)	0.00000	0.00001	0.00001
	(CKN * D * !SE)	0.00020	0.00021	0.00022
	(CKN * !D * SE)	0.00149	0.00154	0.00174
	(CKN * !D * SE)	0.00015	0.00015	0.00016
	(CKN * !D * SE)	-0.00013	-0.00013	-0.00013
	(CKN * !D * SE)	0.00245	0.00250	0.00270
	(CKN * !D * !SE)	-0.00017	-0.00016	-0.00015
	(CKN * !D * !SE)	-0.00002	-0.00001	-0.00001
	(CKN * !D * !SE)	0.00001	0.00001	0.00001
	(CKN * !D * !SE)	0.00019	0.00019	0.00020
	(!CKN * D * SE)	-0.00004	0.00001	0.00021
	(!CKN * D * SE)	0.00016	0.00016	0.00017
	(!CKN * D * SE)	-0.00013	-0.00013	-0.00013
	(!CKN * D * SE)	0.00098	0.00103	0.00123
	(!CKN * D * !SE)	-0.00015	-0.00015	-0.00014
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	0.00001	0.00001	0.00001
	(!CKN * D * !SE)	0.00020	0.00020	0.00021
	(!CKN * !D * SE)	-0.00004	0.00001	0.00021
	(!CKN * !D * SE)	0.00016	0.00016	0.00017
	(!CKN * !D * SE)	-0.00013	-0.00013	-0.00013
	(!CKN * !D * SE)	0.00098	0.00103	0.00123
	(!CKN * !D * !SE)	-0.00017	-0.00016	-0.00015
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	0.00019	0.00019	0.00020

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

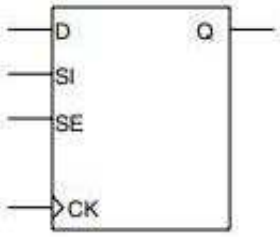
SDFFNX3H7R	**(CKN * D * SE)**	0.00261	0.00266	0.00289
	(CKN * D * SE)	-0.00016	-0.00015	-0.00015
	(CKN * D * SE)	0.00013	0.00013	0.00014
	(CKN * D * SE)	0.00165	0.00171	0.00194
	(CKN * D * !SE)	0.00016	0.00016	0.00016
	(CKN * D * !SE)	0.00001	0.00001	0.00001
	(CKN * D * !SE)	-0.00001	-0.00001	-0.00000
	(CKN * D * !SE)	-0.00020	-0.00019	-0.00019
	(CKN * !D * SE)	0.00261	0.00266	0.00289
	(CKN * !D * SE)	-0.00016	-0.00015	-0.00015
	(CKN * !D * SE)	0.00013	0.00013	0.00013
	(CKN * !D * SE)	0.00165	0.00171	0.00194
	(CKN * !D * !SE)	0.00017	0.00017	0.00018
	(CKN * !D * !SE)	0.00001	0.00001	0.00002
	(CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(CKN * !D * !SE)	-0.00019	-0.00018	-0.00018
	(!CKN * D * SE)	0.00149	0.00154	0.00176
	(!CKN * D * SE)	-0.00017	-0.00016	-0.00016
	(!CKN * D * SE)	0.00013	0.00013	0.00013
	(!CKN * D * SE)	0.00047	0.00053	0.00074
	(!CKN * D * !SE)	0.00016	0.00016	0.00016
	(!CKN * D * !SE)	0.00001	0.00001	0.00001
	(!CKN * D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * D * !SE)	-0.00020	-0.00019	-0.00019
	(!CKN * !D * SE)	0.00149	0.00154	0.00176
	(!CKN * !D * SE)	-0.00017	-0.00016	-0.00016
	(!CKN * !D * SE)	0.00013	0.00013	0.00013
	(!CKN * !D * SE)	0.00047	0.00053	0.00074
	(!CKN * !D * !SE)	0.00017	0.00017	0.00018
	(!CKN * !D * !SE)	0.00001	0.00001	0.00001
	(!CKN * !D * !SE)	-0.00001	-0.00001	-0.00001
	(!CKN * !D * !SE)	-0.00019	-0.00018	-0.00017

SDFFQX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	**D**	**SE**	**SI**	**Q**
R	**0**	**0**	**x**	**0**
R	**x**	**1**	**0**	**0**
R	**x**	**1**	**1**	**1**
R	**1**	**0**	**x**	**1**
x	**x**	**x**	**x**	**IQ**

Footprint

Cell Name	Area
SDFFQX0P5H7R	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	D	SE	SI	Q
SDFFQX0P5H7R	0.00098	0.00068	0.00185	0.00072	0.05971

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFQX0P5H7R	0.00000	1.05850	1.56199

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX0P5H7R	CK->Q (RR)	SE	0.10726	0.26186	0.62417
	CK->Q (RR)	!SE	0.10727	0.26187	0.62418

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX0P5H7R	CK->Q (RF)	SE	0.08130	0.21553	0.51370
	CK->Q (RF)	!SE	0.08126	0.21553	0.51369

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFQX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7R	**hold**	**CK (R)**	-0.12298	-0.05687	-0.00983
	setup	**CK (R)**	0.02206	0.06851	0.14440

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7R	**hold**	**CK (R)**	-0.16535	-0.04563	0.04792
	setup	**CK (R)**	-0.01303	0.07857	0.19875

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7R	**hold**	**CK (R)**	-0.09541	-0.03780	0.02454
	setup	**CK (R)**	0.01282	0.08430	0.14903

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7R	**hold**	**CK (R)**	-0.14071	-0.03174	0.05973
	setup	**CK (R)**	0.03583	0.08497	0.18089

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7R	hold	CK (R)	-0.12804	-0.05968	-0.01144
	setup	CK (R)	0.02146	0.07125	0.14941

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX0P5H7R	hold	CK (R)	-0.18023	-0.05755	0.03916
	setup	CK (R)	-0.00182	0.09043	0.21474

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX0P5H7R	CK	SE	0.00354	0.00367	0.00410
	CK	SE	0.00002	0.00007	0.00007
	CK	SE	-0.00008	-0.00004	-0.00003
	CK	SE	0.00428	0.00441	0.00480
	CK	!SE	0.00355	0.00367	0.00410
	CK	!SE	0.00003	0.00007	0.00008
	CK	!SE	-0.00007	-0.00004	0.00000
	CK	!SE	0.00428	0.00440	0.00480

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX0P5H7R	CK	SE	0.00369	0.00384	0.00425
	CK	SE	-0.00007	-0.00003	-0.00000
	CK	SE	0.00003	0.00007	0.00010
	CK	SE	0.00421	0.00437	0.00480
	CK	!SE	0.00369	0.00384	0.00426
	CK	!SE	-0.00006	-0.00003	0.00000
	CK	!SE	0.00005	0.00007	0.00010
	CK	!SE	0.00421	0.00437	0.00481

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7R	0.00199	0.00210	0.00248
	0.00000	0.00000	0.00000
	0.00002	0.00002	0.00003
	0.00260	0.00271	0.00310

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7R	0.00402	0.00417	0.00468
	-0.00000	-0.00000	0.00000
	-0.00000	0.00001	0.00002
	0.00334	0.00349	0.00400

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7R	0.00160	0.00166	0.00188
	0.00016	0.00016	0.00017
	-0.00014	-0.00014	-0.00014
	0.00260	0.00265	0.00287

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7R	0.00233	0.00239	0.00264
	-0.00017	-0.00016	-0.00016
	0.00014	0.00014	0.00014
	0.00135	0.00141	0.00165

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7R	0.00238	0.00251	0.00297
	0.00000	0.00000	0.00000
	0.00008	0.00009	0.00010
	0.00307	0.00320	0.00366

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7R	0.00285	0.00311	0.00409
	0.00000	0.00000	0.00000
	0.00013	0.00014	0.00015
	0.00126	0.00153	0.00251

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7R	0.00129	0.00134	0.00153
	0.00015	0.00016	0.00016
	-0.00014	-0.00014	-0.00013
	0.00222	0.00227	0.00246

Passive power(pJ) for SI falling :

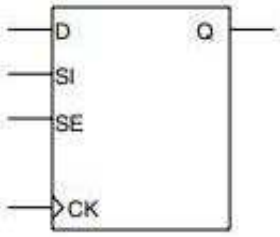
Cell Name	Power(pJ)		
	min	avg	max
SDFFQX0P5H7R	0.00262	0.00268	0.00289
	-0.00016	-0.00016	-0.00015
	0.00013	0.00014	0.00014
	0.00169	0.00175	0.00197

SDFFQX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D	SE	SI	Q
R	0	0	x	0
R	x	1	0	0
R	x	1	1	1
R	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFQX1H7R	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	D	SE	SI	Q
SDFFQX1H7R	0.00099	0.00068	0.00192	0.00073	0.07044

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFQX1H7R	0.00000	1.09263	1.60643

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX1H7R	CK->Q (RR)	SE	0.10709	0.26144	0.62442
	CK->Q (RR)	!SE	0.10709	0.26146	0.62446

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX1H7R	CK->Q (RF)	SE	0.08107	0.21552	0.51614
	CK->Q (RF)	!SE	0.08108	0.21552	0.51621

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFQX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7R	**hold**	**CK (R)**	-0.12341	-0.05572	-0.00897
	setup	**CK (R)**	0.01976	0.06663	0.14109

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7R	**hold**	**CK (R)**	-0.16650	-0.04489	0.04953
	setup	**CK (R)**	-0.01630	0.07613	0.19608

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7R	**hold**	**CK (R)**	-0.09436	-0.03657	0.02533
	setup	**CK (R)**	0.01194	0.08095	0.14481

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7R	**hold**	**CK (R)**	-0.13967	-0.03173	0.06043
	setup	**CK (R)**	0.03384	0.08305	0.18016

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7R	hold	CK (R)	-0.12828	-0.05874	-0.01035
	setup	CK (R)	0.01949	0.07007	0.14798

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX1H7R	hold	CK (R)	-0.18019	-0.05744	0.03843
	setup	CK (R)	-0.00098	0.08882	0.21540

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX1H7R	CK	SE	0.00349	0.00372	0.00415
	CK	SE	0.00006	0.00007	0.00020
	CK	SE	-0.00006	-0.00004	-0.00003
	CK	SE	0.00436	0.00447	0.00486
	CK	!SE	0.00349	0.00372	0.00416
	CK	!SE	0.00007	0.00007	0.00020
	CK	!SE	-0.00006	-0.00004	-0.00004
	CK	!SE	0.00436	0.00447	0.00486

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX1H7R	CK	SE	0.00387	0.00402	0.00444
	CK	SE	-0.00004	-0.00003	-0.00002
	CK	SE	0.00007	0.00007	0.00007
	CK	SE	0.00441	0.00456	0.00501
	CK	!SE	0.00384	0.00402	0.00444
	CK	!SE	-0.00004	-0.00002	0.00002
	CK	!SE	0.00007	0.00007	0.00008
	CK	!SE	0.00441	0.00456	0.00503

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7R	0.00212	0.00223	0.00261
	0.00000	0.00000	0.00000
	0.00001	0.00002	0.00003
	0.00275	0.00285	0.00323

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7R	0.00420	0.00435	0.00485
	-0.00000	-0.00000	0.00000
	-0.00000	0.00001	0.00002
	0.00352	0.00366	0.00417

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7R	0.00161	0.00167	0.00189
	0.00016	0.00016	0.00016
	-0.00014	-0.00014	-0.00013
	0.00261	0.00266	0.00288

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7R	0.00235	0.00242	0.00266
	-0.00016	-0.00016	-0.00016
	0.00013	0.00014	0.00014
	0.00136	0.00142	0.00167

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7R	0.00236	0.00249	0.00296
	0.00000	0.00000	0.00000
	0.00007	0.00009	0.00011
	0.00306	0.00319	0.00366

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7R	0.00285	0.00314	0.00412
	0.00000	0.00000	0.00000
	0.00012	0.00013	0.00014
	0.00124	0.00152	0.00250

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7R	0.00130	0.00136	0.00155
	0.00015	0.00015	0.00016
	-0.00014	-0.00013	-0.00013
	0.00223	0.00228	0.00248

Passive power(pJ) for SI falling :

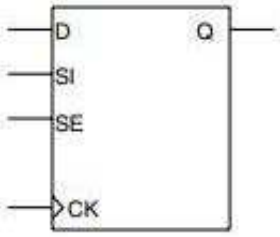
Cell Name	Power(pJ)		
	min	avg	max
SDFFQX1H7R	0.00265	0.00270	0.00291
	-0.00016	-0.00015	-0.00015
	0.00013	0.00013	0.00014
	0.00172	0.00178	0.00199

SDFFQX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D	SE	SI	Q
R	0	0	x	0
R	x	1	0	0
R	x	1	1	1
R	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFQX2H7R	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	D	SE	SI	Q
SDFFQX2H7R	0.00105	0.00068	0.00198	0.00079	0.08928

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFQX2H7R	0.00000	1.21569	1.76905

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX2H7R	CK->Q (RR)	SE	0.09951	0.25279	0.61195
	CK->Q (RR)	!SE	0.09952	0.25280	0.61204

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX2H7R	CK->Q (RF)	SE	0.07851	0.21115	0.50596
	CK->Q (RF)	!SE	0.07853	0.21116	0.50600

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFQX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7R	**hold**	**CK (R)**	-0.12526	-0.05839	-0.01283
	setup	**CK (R)**	0.02393	0.06917	0.14375

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7R	**hold**	**CK (R)**	-0.16630	-0.05106	0.03648
	setup	**CK (R)**	-0.00574	0.08034	0.20016

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7R	**hold**	**CK (R)**	-0.09583	-0.03954	0.01704
	setup	**CK (R)**	0.01948	0.08227	0.14048

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7R	**hold**	**CK (R)**	-0.13336	-0.03715	0.05089
	setup	**CK (R)**	0.03745	0.08336	0.18056

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7R	hold	CK (R)	-0.13035	-0.06147	-0.01727
	setup	CK (R)	0.02489	0.07291	0.15115

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX2H7R	hold	CK (R)	-0.18349	-0.06356	0.02528
	setup	CK (R)	0.00658	0.09329	0.21440

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX2H7R	CK	SE	0.00386	0.00401	0.00452
	CK	SE	0.00006	0.00007	0.00010
	CK	SE	-0.00007	-0.00004	-0.00003
	CK	SE	0.00465	0.00480	0.00529
	CK	!SE	0.00386	0.00401	0.00457
	CK	!SE	0.00007	0.00008	0.00010
	CK	!SE	-0.00006	-0.00003	0.00003
	CK	!SE	0.00460	0.00479	0.00530

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX2H7R	CK	SE	0.00416	0.00434	0.00485
	CK	SE	-0.00002	-0.00002	0.00003
	CK	SE	0.00007	0.00007	0.00011
	CK	SE	0.00472	0.00493	0.00546
	CK	!SE	0.00416	0.00435	0.00485
	CK	!SE	-0.00007	-0.00002	0.00002
	CK	!SE	0.00007	0.00007	0.00008
	CK	!SE	0.00474	0.00493	0.00546

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7R	0.00215	0.00228	0.00274
	0.00000	0.00000	0.00001
	0.00001	0.00002	0.00002
	0.00281	0.00294	0.00341

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7R	0.00426	0.00444	0.00503
	-0.00001	-0.00000	0.00000
	-0.00001	-0.00000	0.00001
	0.00355	0.00372	0.00431

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7R	0.00161	0.00167	0.00190
	0.00015	0.00015	0.00016
	-0.00014	-0.00013	-0.00013
	0.00261	0.00266	0.00289

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7R	0.00240	0.00246	0.00271
	-0.00016	-0.00015	-0.00015
	0.00013	0.00013	0.00014
	0.00140	0.00146	0.00172

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7R	0.00237	0.00252	0.00309
	0.00000	0.00000	0.00000
	0.00005	0.00007	0.00008
	0.00313	0.00328	0.00385

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7R	0.00296	0.00326	0.00435
	0.00000	0.00000	0.00000
	0.00011	0.00013	0.00013
	0.00129	0.00161	0.00270

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7R	0.00131	0.00136	0.00156
	0.00014	0.00014	0.00015
	-0.00013	-0.00013	-0.00013
	0.00226	0.00231	0.00251

Passive power(pJ) for SI falling :

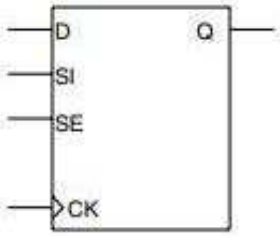
Cell Name	Power(pJ)		
	min	avg	max
SDFFQX2H7R	0.00269	0.00274	0.00296
	-0.00015	-0.00014	-0.00014
	0.00013	0.00013	0.00013
	0.00174	0.00179	0.00201

SDFFQX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFQ cell is a positive edge-triggered, static D-type flip-flop with scan input (SI) and active-high scan enable (SE). The cell has a single output (Q).



Truth Table

INPUT				OUTPUT
CK	D	SE	SI	Q
R	0	0	x	0
R	x	1	0	0
R	x	1	1	1
R	1	0	x	1
x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFQX3H7R	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)
	CK	D	SE	SI	Q
SDFFQX3H7R	0.00106	0.00071	0.00196	0.00074	0.13396

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFQX3H7R	0.00000	1.33421	1.95434

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX3H7R	CK->Q (RR)	SE	0.10048	0.25403	0.61251
	CK->Q (RR)	!SE	0.10049	0.25405	0.61253

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFQX3H7R	CK->Q (RF)	SE	0.07767	0.21129	0.50513
	CK->Q (RF)	!SE	0.07769	0.21131	0.50511

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFQX3H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7R	**hold**	**CK (R)**	-0.12584	-0.06048	-0.01972
	setup	**CK (R)**	0.02942	0.07196	0.14716

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7R	**hold**	**CK (R)**	-0.16802	-0.05113	0.03709
	setup	**CK (R)**	-0.00216	0.08105	0.19914

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7R	**hold**	**CK (R)**	-0.10379	-0.04549	0.00685
	setup	**CK (R)**	0.02896	0.09144	0.15140

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7R	**hold**	**CK (R)**	-0.13785	-0.03682	0.05011
	setup	**CK (R)**	0.04357	0.08612	0.17600

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7R	hold	CK (R)	-0.13694	-0.06693	-0.02509
	setup	CK (R)	0.03409	0.07859	0.15593

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFQX3H7R	hold	CK (R)	-0.19293	-0.06981	0.02192
	setup	CK (R)	0.01353	0.10068	0.22598

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX3H7R	CK	SE	0.00405	0.00423	0.00481
	CK	SE	0.00006	0.00006	0.00006
	CK	SE	-0.00004	-0.00002	-0.00002
	CK	SE	0.00482	0.00499	0.00553
	CK	!SE	0.00405	0.00423	0.00481
	CK	!SE	0.00006	0.00006	0.00006
	CK	!SE	-0.00002	-0.00002	0.00001
	CK	!SE	0.00480	0.00499	0.00553

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFQX3H7R	CK	SE	0.00413	0.00431	0.00485
	CK	SE	-0.00004	-0.00000	0.00004
	CK	SE	0.00005	0.00006	0.00007
	CK	SE	0.00474	0.00493	0.00549
	CK	!SE	0.00413	0.00431	0.00485
	CK	!SE	-0.00004	-0.00000	0.00002
	CK	!SE	0.00006	0.00007	0.00010
	CK	!SE	0.00473	0.00493	0.00550

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7R	0.00185	0.00198	0.00246
	0.00000	0.00000	0.00001
	0.00000	0.00002	0.00003
	0.00251	0.00264	0.00312

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7R	0.00424	0.00442	0.00502
	-0.00001	-0.00000	0.00000
	-0.00000	0.00000	0.00001
	0.00350	0.00368	0.00429

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7R	0.00174	0.00180	0.00205
	0.00017	0.00018	0.00018
	-0.00014	-0.00014	-0.00014
	0.00278	0.00285	0.00309

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7R	0.00256	0.00263	0.00290
	-0.00018	-0.00018	-0.00017
	0.00014	0.00014	0.00014
	0.00150	0.00157	0.00184

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7R	0.00255	0.00270	0.00325
	0.00000	0.00000	0.00000
	0.00006	0.00008	0.00009
	0.00333	0.00348	0.00403

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7R	0.00311	0.00342	0.00452
	0.00000	0.00000	0.00000
	0.00013	0.00014	0.00015
	0.00140	0.00172	0.00283

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7R	0.00142	0.00147	0.00167
	0.00016	0.00016	0.00016
	-0.00013	-0.00013	-0.00012
	0.00237	0.00243	0.00262

Passive power(pJ) for SI falling :

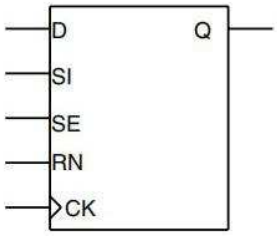
Cell Name	Power(pJ)		
	min	avg	max
SDFFQX3H7R	0.00281	0.00288	0.00310
	-0.00016	-0.00016	-0.00016
	0.00012	0.00013	0.00013
	0.00186	0.00192	0.00215

SDFFRQX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFRQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low reset (RN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	1	0	x	0
R	x	1	1	0	0
R	x	1	1	1	1
R	1	1	0	x	1
x	x	0	x	x	0
x	x	1	x	x	IQ

Footprint

Cell Name	Area
SDFFRQX0P5H7R	8.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFRQX0P5H7R	0.00085	0.00071	0.00076	0.00193	0.00072	0.05982

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRQX0P5H7R	0.00000	0.98101	1.62524

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX0P5H7R	CK->Q (RR)	(RN * SE)	0.10318	0.26622	0.63310
	CK->Q (RR)	(RN * !SE)	0.10317	0.26622	0.63309

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX0P5H7R	CK->Q (RF)	(RN * SE)	0.07493	0.21027	0.50791
	CK->Q (RF)	(RN * !SE)	0.07491	0.21025	0.50794
	RN->Q (FF)	(CK * D * SE * SI)	0.06239	0.21705	0.56942
	RN->Q (FF)	(CK * D * SE * !SI)	0.06239	0.21705	0.56936
	RN->Q (FF)	(CK * D * !SE * SI)	0.06239	0.21704	0.56935
	RN->Q (FF)	(CK * D * !SE * !SI)	0.06239	0.21704	0.56935
	RN->Q (FF)	(CK * !D * SE * SI)	0.06239	0.21705	0.56943
	RN->Q (FF)	(CK * !D * SE * !SI)	0.06239	0.21705	0.56936
	RN->Q (FF)	(CK * !D * !SE * SI)	0.06239	0.21706	0.56936
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.06239	0.21706	0.56936
	RN->Q (FF)	(!CK * D * SE * SI)	0.05752	0.19976	0.52936
	RN->Q (FF)	(!CK * D * SE * !SI)	0.05290	0.19152	0.51276
	RN->Q (FF)	(!CK * D * !SE * SI)	0.05752	0.19976	0.52936
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.05752	0.19977	0.52936
	RN->Q (FF)	(!CK * !D * SE * SI)	0.05752	0.19976	0.52936
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.05290	0.19152	0.51276
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.05290	0.19151	0.51276
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.05290	0.19151	0.51276

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRQX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7R	**hold**	**CK (R)**	-0.07295	-0.00782	0.05435
	setup	**CK (R)**	-0.02626	0.05085	0.13163

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7R	**hold**	**CK (R)**	-0.16492	-0.07808	-0.03194
	setup	**CK (R)**	0.05251	0.10311	0.19798

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7R	**recovery**	**CK (R)**	-0.10602	0.01140	0.24515
	removal	**CK (R)**	0.05894	0.09680	0.15384

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRQX0P5H7R	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7R	hold	CK (R)	-0.04959	0.00223	0.05672
	setup	CK (R)	0.07151	0.10394	0.15457

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7R	hold	CK (R)	-0.10814	-0.02579	0.04528
	setup	CK (R)	0.03759	0.08642	0.16931

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7R	hold	CK (R)	-0.08440	-0.01205	0.05496
	setup	CK (R)	-0.02668	0.05535	0.14024

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX0P5H7R	hold	CK (R)	-0.16704	-0.08189	-0.03323
	setup	CK (R)	0.05472	0.10744	0.20354

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRQX0P5H7R	CK	(RN * SE)	0.00339	0.00353	0.00401
	CK	(RN * SE)	0.00000	0.00001	0.00002
	CK	(RN * SE)	-0.00002	-0.00000	0.00000
	CK	(RN * SE)	0.00410	0.00423	0.00471
	CK	(RN * !SE)	0.00342	0.00356	0.00404
	CK	(RN * !SE)	0.00001	0.00001	0.00002
	CK	(RN * !SE)	-0.00001	0.00000	0.00001
	CK	(RN * !SE)	0.00413	0.00428	0.00474

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRQX0P5H7R	CK	(RN * SE)	0.00333	0.00350	0.00393
	CK	(RN * SE)	-0.00002	-0.00001	0.00000
	CK	(RN * SE)	0.00000	0.00000	0.00002
	CK	(RN * SE)	0.00385	0.00398	0.00442
	CK	(RN * !SE)	0.00339	0.00353	0.00396
	CK	(RN * !SE)	-0.00002	-0.00001	-0.00001
	CK	(RN * !SE)	0.00000	0.00000	0.00002
	CK	(RN * !SE)	0.00388	0.00401	0.00446
	RN	(CK * D * SE * SI)	0.00344	0.00355	0.00400
	RN	(CK * D * SE * SI)	-0.00003	0.00000	0.00003
	RN	(CK * D * SE * SI)	-0.00002	-0.00000	0.00001
	RN	(CK * D * SE * SI)	0.00289	0.00300	0.00346
	RN	(CK * D * SE * !SI)	0.00344	0.00355	0.00400
	RN	(CK * D * SE * !SI)	-0.00002	0.00000	0.00003
	RN	(CK * D * SE * !SI)	-0.00001	-0.00000	0.00001
	RN	(CK * D * SE * !SI)	0.00289	0.00300	0.00346
	RN	(CK * D * !SE * SI)	0.00344	0.00355	0.00400
	RN	(CK * D * !SE * SI)	-0.00003	0.00000	0.00004
	RN	(CK * D * !SE * SI)	-0.00002	-0.00000	0.00001
	RN	(CK * D * !SE * SI)	0.00289	0.00300	0.00346
	RN	(CK * D * !SE * !SI)	0.00344	0.00355	0.00400
	RN	(CK * D * !SE * !SI)	-0.00003	0.00000	0.00004
	RN	(CK * D * !SE * !SI)	-0.00002	-0.00000	0.00001
	RN	(CK * D * !SE * !SI)	0.00289	0.00300	0.00346
	RN	(CK * !D * SE * SI)	0.00344	0.00355	0.00400
	RN	(CK * !D * SE * SI)	-0.00003	0.00000	0.00003
	RN	(CK * !D * SE * SI)	-0.00002	-0.00000	0.00001
	RN	(CK * !D * SE * SI)	0.00289	0.00300	0.00346
	RN	(CK * !D * SE * !SI)	0.00344	0.00355	0.00400
	RN	(CK * !D * SE * !SI)	-0.00002	0.00000	0.00003
	RN	(CK * !D * SE * !SI)	-0.00001	-0.00000	0.00001
	RN	(CK * !D * SE * !SI)	0.00289	0.00300	0.00346
	RN	(CK * !D * !SE * SI)	0.00344	0.00355	0.00400
	RN	(CK * !D * !SE * SI)	-0.00002	0.00000	0.00003
	RN	(CK * !D * !SE * SI)	-0.00000	-0.00000	0.00001
	RN	(CK * !D * !SE * SI)	0.00289	0.00300	0.00346
	RN	(CK * !D * !SE * !SI)	0.00344	0.00355	0.00400
	RN	(CK * !D * !SE * !SI)	-0.00003	0.00000	0.00003
	RN	(CK * !D * !SE * !SI)	-0.00000	-0.00000	0.00001
	RN	(CK * !D * !SE * !SI)	0.00289	0.00300	0.00346
	RN	(!CK * D * SE * SI)	0.00230	0.00242	0.00282
	RN	(!CK * D * SE * SI)	-0.00010	-0.00006	-0.00003
	RN	(!CK * D * SE * SI)	0.00006	0.00007	0.00008
	RN	(!CK * D * SE * SI)	0.00163	0.00175	0.00214
	RN	(!CK * D * SE * !SI)	0.00220	0.00231	0.00270
	RN	(!CK * D * SE * !SI)	-0.00005	-0.00005	-0.00002
	RN	(!CK * D * SE * !SI)	0.00003	0.00005	0.00006
	RN	(!CK * D * SE * !SI)	0.00156	0.00167	0.00206
	RN	(!CK * D * !SE * SI)	0.00230	0.00242	0.00282
	RN	(!CK * D * !SE * SI)	-0.00010	-0.00006	-0.00003
	RN	(!CK * D * !SE * SI)	0.00006	0.00007	0.00008
	RN	(!CK * D * !SE * SI)	0.00163	0.00175	0.00214
	RN	(!CK * D * !SE * !SI)	0.00230	0.00242	0.00282
	RN	(!CK * D * !SE * !SI)	-0.00010	-0.00006	-0.00003
	RN	(!CK * D * !SE * !SI)	0.00006	0.00007	0.00008
	RN	(!CK * D * !SE * !SI)	0.00163	0.00175	0.00214
	RN	(!CK * !D * SE * SI)	0.00230	0.00242	0.00282
	RN	(!CK * !D * SE * SI)	-0.00010	-0.00006	-0.00003
	RN	(!CK * !D * SE * SI)	0.00006	0.00007	0.00008
	RN	(!CK * !D * SE * SI)	0.00163	0.00175	0.00214
	RN	(!CK * !D * SE * !SI)	0.00220	0.00231	0.00270
	RN	(!CK * !D * SE * !SI)	-0.00008	-0.00005	-0.00002
	RN	(!CK * !D * SE * !SI)	0.00003	0.00005	0.00007
	RN	(!CK * !D * SE * !SI)	0.00153	0.00167	0.00206
	RN	(!CK * !D * !SE * SI)	0.00220	0.00231	0.00270
	RN	(!CK * !D * !SE * SI)	-0.00008	-0.00005	-0.00002
	RN	(!CK * !D * !SE * SI)	0.00003	0.00005	0.00007
	RN	(!CK * !D * !SE * SI)	0.00153	0.00167	0.00206
	RN	(!CK * !D * !SE * !SI)	0.00220	0.00231	0.00270
	RN	(!CK * !D * !SE * !SI)	-0.00005	-0.00005	-0.00002
	RN	(!CK * !D * !SE * !SI)	0.00003	0.00005	0.00006
	RN	(!CK * !D * !SE * !SI)	0.00156	0.00167	0.00206

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7R	0.00308	0.00317	0.00350
	0.00001	0.00002	0.00003
	0.00000	0.00001	0.00002
	0.00364	0.00375	0.00408

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7R	0.00396	0.00406	0.00445
	-0.00003	-0.00002	-0.00001
	0.00004	0.00005	0.00006
	0.00327	0.00339	0.00378

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7R	0.00183	0.00189	0.00210
	0.00007	0.00008	0.00009
	-0.00006	-0.00006	-0.00005
	0.00279	0.00285	0.00306

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7R	0.00247	0.00254	0.00278
	-0.00009	-0.00008	-0.00007
	0.00005	0.00006	0.00006
	0.00152	0.00159	0.00184

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7R	0.00027	0.00027	0.00027
	0.00003	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00089	0.00089	0.00089

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7R	0.00019	0.00019	0.00020
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	-0.00026	-0.00025	-0.00024

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7R	0.00142	0.00169	0.00261
	0.00007	0.00008	0.00008
	0.00000	0.00000	0.00000
	0.00302	0.00328	0.00421

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7R	0.00297	0.00312	0.00366
	0.00001	0.00002	0.00003
	0.00000	0.00000	0.00000
	0.00222	0.00238	0.00292

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7R	0.00153	0.00158	0.00178
	0.00007	0.00008	0.00008
	-0.00007	-0.00006	-0.00005
	0.00243	0.00248	0.00267

Passive power(pJ) for SI falling :

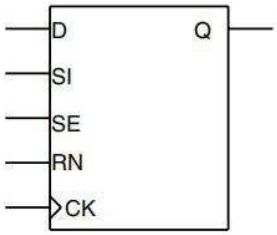
Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX0P5H7R	0.00265	0.00271	0.00292
	-0.00008	-0.00008	-0.00007
	0.00005	0.00006	0.00007
	0.00176	0.00182	0.00203

SDFFRQX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFRQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low reset (RN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	1	0	x	0
R	x	1	1	0	0
R	x	1	1	1	1
R	1	1	0	x	1
x	x	0	x	x	0
x	x	1	x	x	IQ

Footprint

Cell Name	Area
SDFFRQX1H7R	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFRQX1H7R	0.00083	0.00071	0.00071	0.00189	0.00072	0.07094

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRQX1H7R	0.00000	1.01235	1.68724

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX1H7R	CK->Q (RR)	(RN * SE)	0.10047	0.26456	0.63302
	CK->Q (RR)	(RN * !SE)	0.10046	0.26456	0.63292

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX1H7R	CK->Q (RF)	(RN * SE)	0.07311	0.20984	0.51093
	CK->Q (RF)	(RN * !SE)	0.07301	0.20983	0.51089
	RN->Q (FF)	(CK * D * SE * SI)	0.06141	0.21859	0.57535
	RN->Q (FF)	(CK * D * SE * !SI)	0.06141	0.21859	0.57541
	RN->Q (FF)	(CK * D * !SE * SI)	0.06141	0.21859	0.57535
	RN->Q (FF)	(CK * D * !SE * !SI)	0.06141	0.21859	0.57535
	RN->Q (FF)	(CK * !D * SE * SI)	0.06141	0.21859	0.57536
	RN->Q (FF)	(CK * !D * SE * !SI)	0.06141	0.21860	0.57539
	RN->Q (FF)	(CK * !D * !SE * SI)	0.06141	0.21859	0.57535
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.06141	0.21859	0.57535
	RN->Q (FF)	(!CK * D * SE * SI)	0.05641	0.20101	0.53494
	RN->Q (FF)	(!CK * D * SE * !SI)	0.05164	0.19267	0.51804
	RN->Q (FF)	(!CK * D * !SE * SI)	0.05641	0.20101	0.53496
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.05641	0.20101	0.53496
	RN->Q (FF)	(!CK * !D * SE * SI)	0.05641	0.20101	0.53497
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.05164	0.19267	0.51813
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.05164	0.19267	0.51809
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.05164	0.19267	0.51809

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRQX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7R	**hold**	**CK (R)**	-0.07499	-0.00725	0.05488
	setup	**CK (R)**	-0.02756	0.04880	0.13004

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7R	**hold**	**CK (R)**	-0.16451	-0.07627	-0.02560
	setup	**CK (R)**	0.04956	0.10086	0.19666

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7R	**recovery**	**CK (R)**	-0.10978	0.01110	0.24645
	removal	**CK (R)**	0.06040	0.09837	0.15520

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRQX1H7R	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7R	hold	CK (R)	-0.04983	0.00229	0.05656
	setup	CK (R)	0.06694	0.10185	0.15208

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7R	hold	CK (R)	-0.10814	-0.02561	0.04612
	setup	CK (R)	0.03384	0.08429	0.16801

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7R	hold	CK (R)	-0.08379	-0.01154	0.05392
	setup	CK (R)	-0.02497	0.05369	0.14080

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX1H7R	hold	CK (R)	-0.16920	-0.08007	-0.02973
	setup	CK (R)	0.05305	0.10497	0.19809

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRQX1H7R	CK	(RN * SE)	0.00348	0.00362	0.00411
	CK	(RN * SE)	0.00001	0.00001	0.00001
	CK	(RN * SE)	-0.00002	-0.00000	0.00000
	CK	(RN * SE)	0.00416	0.00429	0.00477
	CK	(RN * !SE)	0.00351	0.00365	0.00413
	CK	(RN * !SE)	0.00001	0.00001	0.00002
	CK	(RN * !SE)	-0.00002	-0.00000	0.00000
	CK	(RN * !SE)	0.00419	0.00433	0.00481

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRQX1H7R	CK	(RN * SE)	0.00343	0.00356	0.00400
	CK	(RN * SE)	-0.00001	-0.00001	0.00000
	CK	(RN * SE)	0.00000	0.00000	0.00003
	CK	(RN * SE)	0.00390	0.00405	0.00454
	CK	(RN * !SE)	0.00346	0.00360	0.00403
	CK	(RN * !SE)	-0.00002	-0.00001	0.00000
	CK	(RN * !SE)	0.00000	0.00000	0.00003
	CK	(RN * !SE)	0.00391	0.00408	0.00453
	RN	(CK * D * SE * SI)	0.00349	0.00361	0.00411
	RN	(CK * D * SE * SI)	-0.00003	0.00000	0.00004
	RN	(CK * D * SE * SI)	-0.00003	0.00000	0.00001
	RN	(CK * D * SE * SI)	0.00297	0.00310	0.00360
	RN	(CK * D * SE * !SI)	0.00349	0.00361	0.00411
	RN	(CK * D * SE * !SI)	-0.00004	0.00000	0.00004
	RN	(CK * D * SE * !SI)	-0.00002	0.00000	0.00002
	RN	(CK * D * SE * !SI)	0.00297	0.00310	0.00360
	RN	(CK * D * !SE * SI)	0.00349	0.00361	0.00411
	RN	(CK * D * !SE * SI)	-0.00003	0.00000	0.00004
	RN	(CK * D * !SE * SI)	-0.00002	0.00000	0.00000
	RN	(CK * D * !SE * SI)	0.00296	0.00310	0.00360
	RN	(CK * D * !SE * !SI)	0.00349	0.00361	0.00411
	RN	(CK * D * !SE * !SI)	-0.00003	0.00000	0.00004
	RN	(CK * D * !SE * !SI)	-0.00002	0.00000	0.00000
	RN	(CK * D * !SE * !SI)	0.00296	0.00310	0.00360
	RN	(CK * !D * SE * SI)	0.00350	0.00361	0.00411
	RN	(CK * !D * SE * SI)	-0.00003	0.00000	0.00004
	RN	(CK * !D * SE * SI)	-0.00003	0.00000	0.00001
	RN	(CK * !D * SE * SI)	0.00297	0.00310	0.00360
	RN	(CK * !D * SE * !SI)	0.00347	0.00361	0.00411
	RN	(CK * !D * SE * !SI)	-0.00003	0.00000	0.00004
	RN	(CK * !D * SE * !SI)	-0.00002	0.00000	0.00002
	RN	(CK * !D * SE * !SI)	0.00297	0.00310	0.00360
	RN	(CK * !D * !SE * SI)	0.00349	0.00361	0.00411
	RN	(CK * !D * !SE * SI)	-0.00003	0.00000	0.00004
	RN	(CK * !D * !SE * SI)	-0.00001	0.00000	0.00002
	RN	(CK * !D * !SE * SI)	0.00297	0.00310	0.00360
	RN	(CK * !D * !SE * !SI)	0.00349	0.00361	0.00411
	RN	(CK * !D * !SE * !SI)	-0.00004	0.00000	0.00004
	RN	(CK * !D * !SE * !SI)	-0.00001	0.00000	0.00002
	RN	(CK * !D * !SE * !SI)	0.00297	0.00310	0.00360
	RN	(!CK * D * SE * SI)	0.00231	0.00245	0.00288
	RN	(!CK * D * SE * SI)	-0.00009	-0.00006	-0.00001
	RN	(!CK * D * SE * SI)	0.00004	0.00007	0.00007
	RN	(!CK * D * SE * SI)	0.00170	0.00182	0.00224
	RN	(!CK * D * SE * !SI)	0.00220	0.00234	0.00276
	RN	(!CK * D * SE * !SI)	-0.00008	-0.00005	-0.00002
	RN	(!CK * D * SE * !SI)	0.00001	0.00005	0.00008
	RN	(!CK * D * SE * !SI)	0.00160	0.00174	0.00217
	RN	(!CK * D * !SE * SI)	0.00231	0.00245	0.00288
	RN	(!CK * D * !SE * SI)	-0.00009	-0.00006	-0.00001
	RN	(!CK * D * !SE * SI)	0.00004	0.00007	0.00007
	RN	(!CK * D * !SE * SI)	0.00170	0.00182	0.00224
	RN	(!CK * D * !SE * !SI)	0.00231	0.00245	0.00288
	RN	(!CK * D * !SE * !SI)	-0.00009	-0.00006	-0.00001
	RN	(!CK * D * !SE * !SI)	0.00004	0.00007	0.00007
	RN	(!CK * D * !SE * !SI)	0.00170	0.00182	0.00224
	RN	(!CK * !D * SE * SI)	0.00231	0.00245	0.00288
	RN	(!CK * !D * SE * SI)	-0.00009	-0.00006	-0.00001
	RN	(!CK * !D * SE * SI)	0.00004	0.00007	0.00007
	RN	(!CK * !D * SE * SI)	0.00170	0.00182	0.00224
	RN	(!CK * !D * SE * !SI)	0.00220	0.00234	0.00276
	RN	(!CK * !D * SE * !SI)	-0.00008	-0.00005	-0.00002
	RN	(!CK * !D * SE * !SI)	0.00001	0.00005	0.00008
	RN	(!CK * !D * SE * !SI)	0.00160	0.00174	0.00217
	RN	(!CK * !D * !SE * SI)	0.00220	0.00233	0.00276
	RN	(!CK * !D * !SE * SI)	-0.00005	-0.00004	-0.00001
	RN	(!CK * !D * !SE * SI)	0.00001	0.00005	0.00008
	RN	(!CK * !D * !SE * SI)	0.00160	0.00174	0.00216
	RN	(!CK * !D * !SE * !SI)	0.00220	0.00233	0.00276
	RN	(!CK * !D * !SE * !SI)	-0.00005	-0.00004	-0.00001
	RN	(!CK * !D * !SE * !SI)	0.00001	0.00005	0.00008
	RN	(!CK * !D * !SE * !SI)	0.00160	0.00174	0.00216

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7R	0.00311	0.00320	0.00354
	0.00002	0.00002	0.00003
	0.00001	0.00002	0.00002
	0.00368	0.00377	0.00411

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7R	0.00397	0.00407	0.00446
	-0.00003	-0.00002	-0.00001
	0.00005	0.00006	0.00006
	0.00331	0.00341	0.00380

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7R	0.00187	0.00193	0.00215
	0.00007	0.00008	0.00009
	-0.00006	-0.00005	-0.00004
	0.00281	0.00288	0.00309

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7R	0.00251	0.00258	0.00282
	-0.00009	-0.00008	-0.00007
	0.00004	0.00005	0.00006
	0.00158	0.00165	0.00189

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7R	0.00030	0.00030	0.00030
	0.00003	0.00003	0.00003
	0.00000	0.00000	0.00000
	0.00090	0.00090	0.00090

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7R	0.00018	0.00018	0.00019
	0.00000	0.00000	0.00000
	0.00000	0.00000	0.00000
	-0.00024	-0.00024	-0.00023

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7R	0.00148	0.00174	0.00267
	0.00007	0.00007	0.00008
	-0.00008	-0.00007	-0.00004
	0.00303	0.00330	0.00423

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7R	0.00304	0.00332	0.00431
	-0.00008	-0.00007	-0.00007
	0.00008	0.00009	0.00010
	0.00144	0.00172	0.00270

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7R	0.00158	0.00163	0.00182
	0.00007	0.00008	0.00008
	-0.00005	-0.00004	-0.00003
	0.00245	0.00251	0.00270

Passive power(pJ) for SI falling :

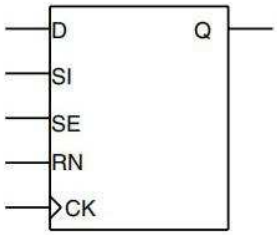
Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX1H7R	0.00276	0.00282	0.00303
	-0.00008	-0.00008	-0.00007
	0.00003	0.00004	0.00005
	0.00191	0.00196	0.00218

SDFFRQX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFRQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low reset (RN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	1	0	x	0
R	x	1	1	0	0
R	x	1	1	1	1
R	1	1	0	x	1
x	x	0	x	x	0
x	x	1	x	x	IQ

Footprint

Cell Name	Area
SDFFRQX2H7R	9.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFRQX2H7R	0.00090	0.00072	0.00073	0.00195	0.00072	0.08117

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRQX2H7R	0.00000	1.12270	1.87100

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX2H7R	CK->Q (RR)	(RN * SE)	0.09728	0.25887	0.62109
	CK->Q (RR)	(RN * !SE)	0.09724	0.25888	0.62109

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRQX2H7R	CK->Q (RF)	(RN * SE)	0.06989	0.19632	0.46954
	CK->Q (RF)	(RN * !SE)	0.06990	0.19634	0.46957
	RN->Q (FF)	(CK * D * SE * SI)	0.06465	0.21448	0.55081
	RN->Q (FF)	(CK * D * SE * !SI)	0.06465	0.21448	0.55081
	RN->Q (FF)	(CK * D * !SE * SI)	0.06465	0.21449	0.55081
	RN->Q (FF)	(CK * D * !SE * !SI)	0.06465	0.21449	0.55081
	RN->Q (FF)	(CK * !D * SE * SI)	0.06465	0.21448	0.55081
	RN->Q (FF)	(CK * !D * SE * !SI)	0.06465	0.21448	0.55078
	RN->Q (FF)	(CK * !D * !SE * SI)	0.06465	0.21448	0.55081
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.06465	0.21449	0.55081
	RN->Q (FF)	(!CK * D * SE * SI)	0.05958	0.19735	0.51132
	RN->Q (FF)	(!CK * D * SE * !SI)	0.05464	0.18894	0.49478
	RN->Q (FF)	(!CK * D * !SE * SI)	0.05958	0.19735	0.51132
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.05958	0.19735	0.51132
	RN->Q (FF)	(!CK * !D * SE * SI)	0.05958	0.19735	0.51132
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.05464	0.18894	0.49478
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.05464	0.18894	0.49478
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.05464	0.18894	0.49478

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRQX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7R	**hold**	**CK (R)**	-0.07467	-0.01161	0.04657
	setup	**CK (R)**	-0.02087	0.05407	0.13099

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7R	**hold**	**CK (R)**	-0.16323	-0.07944	-0.03367
	setup	**CK (R)**	0.05735	0.10412	0.19635

Constraints(ns) for RN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7R	**recovery**	**CK (R)**	-0.09498	0.02477	0.28573
	removal	**CK (R)**	0.04950	0.08912	0.14286

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRQX2H7R	-	0.9851

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7R	hold	CK (R)	-0.05564	-0.00281	0.04991
	setup	CK (R)	0.06998	0.10071	0.14454

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7R	hold	CK (R)	-0.10440	-0.02569	0.04032
	setup	CK (R)	0.04050	0.08779	0.17014

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7R	hold	CK (R)	-0.08563	-0.01590	0.04718
	setup	CK (R)	-0.01786	0.05886	0.14285

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRQX2H7R	hold	CK (R)	-0.16862	-0.08297	-0.03583
	setup	CK (R)	0.05933	0.10822	0.20194

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRQX2H7R	CK	(RN * SE)	0.00372	0.00389	0.00449
	CK	(RN * SE)	0.00000	0.00001	0.00001
	CK	(RN * SE)	0.00000	0.00000	0.00000
	CK	(RN * SE)	0.00445	0.00462	0.00519
	CK	(RN * !SE)	0.00376	0.00393	0.00453
	CK	(RN * !SE)	0.00000	0.00001	0.00001
	CK	(RN * !SE)	0.00000	0.00000	0.00000
	CK	(RN * !SE)	0.00449	0.00466	0.00523

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRQX2H7R	**CK**	**(RN * SE)**	0.00373	0.00390	0.00441
	CK	**(RN * SE)**	-0.00001	-0.00001	0.00000
	CK	**(RN * SE)**	0.00000	0.00000	0.00000
	CK	**(RN * SE)**	0.00427	0.00444	0.00497
	CK	**(RN * !SE)**	0.00377	0.00394	0.00445
	CK	**(RN * !SE)**	-0.00001	-0.00001	0.00000
	CK	**(RN * !SE)**	0.00000	0.00000	0.00000
	CK	**(RN * !SE)**	0.00432	0.00448	0.00501
	RN	**(CK * D * SE * SI)**	0.00380	0.00392	0.00450
	RN	**(CK * D * SE * SI)**	-0.00003	-0.00000	0.00002
	RN	**(CK * D * SE * SI)**	-0.00003	0.00000	0.00004
	RN	**(CK * D * SE * SI)**	0.00324	0.00339	0.00397
	RN	**(CK * D * SE * !SI)**	0.00380	0.00392	0.00450
	RN	**(CK * D * SE * !SI)**	-0.00003	-0.00000	0.00003
	RN	**(CK * D * SE * !SI)**	-0.00003	0.00000	0.00004
	RN	**(CK * D * SE * !SI)**	0.00324	0.00339	0.00397
	RN	**(CK * D * !SE * SI)**	0.00380	0.00392	0.00450
	RN	**(CK * D * !SE * SI)**	-0.00003	-0.00000	0.00003
	RN	**(CK * D * !SE * SI)**	-0.00003	0.00000	0.00004
	RN	**(CK * D * !SE * SI)**	0.00324	0.00339	0.00397
	RN	**(CK * D * !SE * !SI)**	0.00380	0.00392	0.00450
	RN	**(CK * D * !SE * !SI)**	-0.00003	-0.00000	0.00003
	RN	**(CK * D * !SE * !SI)**	-0.00003	0.00000	0.00004
	RN	**(CK * D * !SE * !SI)**	0.00324	0.00339	0.00397
	RN	**(CK * !D * SE * SI)**	0.00380	0.00392	0.00450
	RN	**(CK * !D * SE * SI)**	-0.00003	-0.00000	0.00002
	RN	**(CK * !D * SE * SI)**	-0.00003	0.00000	0.00004
	RN	**(CK * !D * SE * SI)**	0.00324	0.00339	0.00397
	RN	**(CK * !D * SE * !SI)**	0.00380	0.00392	0.00450
	RN	**(CK * !D * SE * !SI)**	-0.00003	-0.00000	0.00002
	RN	**(CK * !D * SE * !SI)**	-0.00003	0.00000	0.00004
	RN	**(CK * !D * SE * !SI)**	0.00324	0.00339	0.00397
	RN	**(CK * !D * !SE * SI)**	0.00380	0.00392	0.00450
	RN	**(CK * !D * !SE * SI)**	-0.00003	-0.00000	0.00002
	RN	**(CK * !D * !SE * SI)**	-0.00000	0.00000	0.00004
	RN	**(CK * !D * !SE * SI)**	0.00324	0.00339	0.00397
	RN	**(CK * !D * !SE * !SI)**	0.00380	0.00392	0.00450
	RN	**(CK * !D * !SE * !SI)**	-0.00003	-0.00000	0.00002
	RN	**(CK * !D * !SE * !SI)**	-0.00001	0.00000	0.00004
	RN	**(CK * !D * !SE * !SI)**	0.00324	0.00339	0.00397
	RN	**(!CK * D * SE * SI)**	0.00260	0.00271	0.00320
	RN	**(!CK * D * SE * SI)**	-0.00009	-0.00006	-0.00005
	RN	**(!CK * D * SE * SI)**	0.00005	0.00007	0.00012
	RN	**(!CK * D * SE * SI)**	0.00192	0.00206	0.00254
	RN	**(!CK * D * SE * !SI)**	0.00248	0.00260	0.00309
	RN	**(!CK * D * SE * !SI)**	-0.00005	-0.00004	-0.00004
	RN	**(!CK * D * SE * !SI)**	0.00004	0.00005	0.00005
	RN	**(!CK * D * SE * !SI)**	0.00187	0.00199	0.00248
	RN	**(!CK * D * !SE * SI)**	0.00260	0.00271	0.00320
	RN	**(!CK * D * !SE * SI)**	-0.00009	-0.00006	-0.00005
	RN	**(!CK * D * !SE * SI)**	0.00005	0.00007	0.00012
	RN	**(!CK * D * !SE * SI)**	0.00192	0.00206	0.00254
	RN	**(!CK * D * !SE * !SI)**	0.00260	0.00271	0.00320
	RN	**(!CK * D * !SE * !SI)**	-0.00009	-0.00006	-0.00005
	RN	**(!CK * D * !SE * !SI)**	0.00005	0.00007	0.00012
	RN	**(!CK * D * !SE * !SI)**	0.00192	0.00206	0.00254
	RN	**(!CK * !D * SE * SI)**	0.00260	0.00271	0.00320
	RN	**(!CK * !D * SE * SI)**	-0.00009	-0.00006	-0.00005
	RN	**(!CK * !D * SE * SI)**	0.00005	0.00007	0.00012
	RN	**(!CK * !D * SE * SI)**	0.00192	0.00206	0.00254
	RN	**(!CK * !D * SE * !SI)**	0.00248	0.00260	0.00309
	RN	**(!CK * !D * SE * !SI)**	-0.00005	-0.00004	-0.00004
	RN	**(!CK * !D * SE * !SI)**	0.00004	0.00005	0.00005
	RN	**(!CK * !D * SE * !SI)**	0.00187	0.00199	0.00248
	RN	**(!CK * !D * !SE * SI)**	0.00248	0.00260	0.00309
	RN	**(!CK * !D * !SE * SI)**	-0.00005	-0.00004	-0.00004
	RN	**(!CK * !D * !SE * SI)**	0.00004	0.00005	0.00006
	RN	**(!CK * !D * !SE * SI)**	0.00187	0.00199	0.00248
	RN	**(!CK * !D * !SE * !SI)**	0.00248	0.00260	0.00309
	RN	**(!CK * !D * !SE * !SI)**	-0.00005	-0.00004	-0.00004
	RN	**(!CK * !D * !SE * !SI)**	0.00004	0.00005	0.00005
	RN	**(!CK * !D * !SE * !SI)**	0.00187	0.00199	0.00248

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7R	0.00323	0.00335	0.00377
	0.00000	0.00001	0.00003
	0.00001	0.00002	0.00002
	0.00385	0.00396	0.00438

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7R	0.00412	0.00425	0.00472
	-0.00003	-0.00001	0.00000
	0.00005	0.00006	0.00007
	0.00340	0.00353	0.00400

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7R	0.00194	0.00200	0.00221
	0.00006	0.00008	0.00009
	-0.00006	-0.00005	-0.00005
	0.00289	0.00294	0.00315

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7R	0.00257	0.00264	0.00288
	-0.00008	-0.00008	-0.00006
	0.00005	0.00005	0.00006
	0.00165	0.00171	0.00195

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7R	0.00030	0.00030	0.00031
	0.00004	0.00004	0.00004
	0.00000	0.00000	0.00000
	0.00094	0.00094	0.00095

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7R	0.00018	0.00018	0.00018
	0.00000	0.00000	0.00001
	0.00000	0.00000	0.00000
	-0.00026	-0.00026	-0.00024

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7R	0.00156	0.00184	0.00286
	0.00006	0.00008	0.00009
	-0.00006	-0.00006	-0.00005
	0.00317	0.00346	0.00447

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7R	0.00302	0.00332	0.00441
	-0.00009	-0.00008	-0.00006
	0.00005	0.00006	0.00006
	0.00141	0.00172	0.00280

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7R	0.00165	0.00171	0.00191
	0.00007	0.00007	0.00008
	-0.00005	-0.00004	-0.00003
	0.00252	0.00257	0.00277

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFRQX2H7R	0.00280	0.00286	0.00308
	-0.00007	-0.00007	-0.00007
	0.00003	0.00004	0.00005
	0.00196	0.00201	0.00223

SDFFRX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Triggered Scan D Flip-Flop with Async Clear
Q = !RN ? 0 : falling (CKN) ? (SE&SI| !SE&D) : prev_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	RN	SE	SI	Q	QN
R	0	1	0	x	0	1
R	x	1	1	0	0	1
R	x	1	1	1	1	0
R	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFRX0P5H7R	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	RN	SE	SI	Q	QN
SDFFRX0P5H7R	0.00089	0.00075	0.00080	0.00183	0.00069	0.05977	0.05955

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRX0P5H7R	0.00000	1.29926	1.66555

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX0P5H7R	CK->Q (RR)	-	0.13001	0.27836	0.63995

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX0P5H7R	CK->Q (RF)	-	0.11599	0.23978	0.52657
	RN->Q (FF)	(CK * D * SE * SI)	0.09795	0.21825	0.50651
	RN->Q (FF)	(CK * D * SE * !SI)	0.09795	0.21825	0.50651
	RN->Q (FF)	(CK * D * !SE * SI)	0.09795	0.21825	0.50651
	RN->Q (FF)	(CK * D * !SE * !SI)	0.09795	0.21825	0.50651
	RN->Q (FF)	(CK * !D * SE * SI)	0.09795	0.21825	0.50651
	RN->Q (FF)	(CK * !D * SE * !SI)	0.09795	0.21825	0.50651
	RN->Q (FF)	(CK * !D * !SE * SI)	0.09795	0.21825	0.50651
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.09795	0.21825	0.50651
	RN->Q (FF)	(!CK * D * SE * SI)	0.08984	0.20971	0.49791
	RN->Q (FF)	(!CK * D * SE * !SI)	0.08823	0.20771	0.49536
	RN->Q (FF)	(!CK * D * !SE * SI)	0.08984	0.20972	0.49792
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.08984	0.20972	0.49792
	RN->Q (FF)	(!CK * !D * SE * SI)	0.08984	0.20971	0.49791
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.08823	0.20770	0.49536
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.08823	0.20770	0.49528
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.08823	0.20770	0.49528

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX0P5H7R	CK->QN (RR)	-	0.08840	0.24145	0.60038
	RN->QN (FR)	(CK * D * SE * SI)	0.06821	0.22037	0.58175
	RN->QN (FR)	(CK * D * SE * !SI)	0.06821	0.22037	0.58174
	RN->QN (FR)	(CK * D * !SE * SI)	0.06821	0.22037	0.58175
	RN->QN (FR)	(CK * D * !SE * !SI)	0.06821	0.22037	0.58175
	RN->QN (FR)	(CK * !D * SE * SI)	0.06821	0.22037	0.58175
	RN->QN (FR)	(CK * !D * SE * !SI)	0.06821	0.22037	0.58174
	RN->QN (FR)	(CK * !D * !SE * SI)	0.06821	0.22037	0.58175
	RN->QN (FR)	(CK * !D * !SE * !SI)	0.06821	0.22037	0.58175
	RN->QN (FR)	(!CK * D * SE * SI)	0.06287	0.21014	0.56951
	RN->QN (FR)	(!CK * D * SE * !SI)	0.06170	0.20825	0.56668
	RN->QN (FR)	(!CK * D * !SE * SI)	0.06287	0.21014	0.56952
	RN->QN (FR)	(!CK * D * !SE * !SI)	0.06287	0.21014	0.56952
	RN->QN (FR)	(!CK * !D * SE * SI)	0.06287	0.21014	0.56952
	RN->QN (FR)	(!CK * !D * SE * !SI)	0.06170	0.20825	0.56668
	RN->QN (FR)	(!CK * !D * !SE * SI)	0.06170	0.20825	0.56668
	RN->QN (FR)	(!CK * !D * !SE * !SI)	0.06170	0.20825	0.56668

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX0P5H7R	CK->QN (RF)	-	0.09691	0.24453	0.55130

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7R	**hold**	**CK (R)**	-0.10823	-0.05366	-0.01831
	setup	**CK (R)**	0.03739	0.08466	0.17144

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7R	**hold**	**CK (R)**	-0.14516	-0.04031	0.04702
	setup	**CK (R)**	-0.01554	0.08077	0.20712

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRX0P5H7R	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7R	**hold**	**CK (R)**	-0.03013	0.02284	0.09048
	setup	**CK (R)**	-0.03177	0.02792	0.08438

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7R	hold	CK (R)	-0.08490	-0.03553	0.01901
	setup	CK (R)	0.03746	0.09062	0.16639

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7R	hold	CK (R)	-0.11154	-0.02112	0.06923
	setup	CK (R)	0.04678	0.09856	0.18914

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7R	hold	CK (R)	-0.12030	-0.06021	-0.02160
	setup	CK (R)	0.04059	0.09263	0.18662

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX0P5H7R	hold	CK (R)	-0.15116	-0.04559	0.04069
	setup	CK (R)	-0.00768	0.08722	0.21341

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX0P5H7R	CK	-	0.00197	0.00205	0.00229
	CK	-	-0.00002	-0.00001	-0.00001
	CK	-	0.00001	0.00002	0.00004
	CK	-	0.00222	0.00231	0.00257

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX0P5H7R	CK	-	0.00196	0.00206	0.00233
	CK	-	0.00001	0.00001	0.00003
	CK	-	-0.00003	-0.00002	-0.00000
	CK	-	0.00233	0.00243	0.00271
	RN	(CK * D * SE * SI)	0.00220	0.00231	0.00260
	RN	(CK * D * SE * SI)	-0.00001	0.00000	0.00002
	RN	(CK * D * SE * SI)	-0.00001	0.00001	0.00003
	RN	(CK * D * SE * SI)	0.00192	0.00203	0.00234
	RN	(CK * D * SE * !SI)	0.00220	0.00231	0.00260
	RN	(CK * D * SE * !SI)	-0.00001	0.00000	0.00002
	RN	(CK * D * SE * !SI)	-0.00001	0.00001	0.00002
	RN	(CK * D * SE * !SI)	0.00192	0.00203	0.00233
	RN	(CK * D * !SE * SI)	0.00220	0.00231	0.00260
	RN	(CK * D * !SE * SI)	-0.00002	0.00000	0.00002
	RN	(CK * D * !SE * SI)	-0.00001	0.00001	0.00001
	RN	(CK * D * !SE * SI)	0.00193	0.00203	0.00233
	RN	(CK * D * !SE * !SI)	0.00220	0.00231	0.00260
	RN	(CK * D * !SE * !SI)	-0.00001	0.00000	0.00002
	RN	(CK * D * !SE * !SI)	-0.00001	0.00001	0.00001
	RN	(CK * D * !SE * !SI)	0.00193	0.00203	0.00233
	RN	(CK * !D * SE * SI)	0.00220	0.00231	0.00260
	RN	(CK * !D * SE * SI)	-0.00001	0.00000	0.00002
	RN	(CK * !D * SE * SI)	-0.00001	0.00001	0.00002
	RN	(CK * !D * SE * SI)	0.00192	0.00203	0.00234
	RN	(CK * !D * SE * !SI)	0.00220	0.00231	0.00259
	RN	(CK * !D * SE * !SI)	-0.00001	0.00000	0.00002
	RN	(CK * !D * SE * !SI)	-0.00001	0.00001	0.00002
	RN	(CK * !D * SE * !SI)	0.00192	0.00203	0.00233
	RN	(CK * !D * !SE * SI)	0.00220	0.00232	0.00328
	RN	(CK * !D * !SE * SI)	-0.00089	-0.00002	0.00002
	RN	(CK * !D * !SE * SI)	-0.00001	0.00000	0.00001
	RN	(CK * !D * !SE * SI)	0.00193	0.00203	0.00233
	RN	(CK * !D * !SE * !SI)	0.00220	0.00232	0.00329
	RN	(CK * !D * !SE * !SI)	-0.00089	-0.00002	0.00002
	RN	(CK * !D * !SE * !SI)	-0.00001	0.00001	0.00002
	RN	(CK * !D * !SE * !SI)	0.00192	0.00203	0.00233
	RN	(!CK * D * SE * SI)	0.00162	0.00174	0.00203
	RN	(!CK * D * SE * SI)	0.00002	0.00003	0.00003
	RN	(!CK * D * SE * SI)	-0.00005	-0.00003	0.00008
	RN	(!CK * D * SE * SI)	0.00135	0.00153	0.00183
	RN	(!CK * D * SE * !SI)	0.00163	0.00173	0.00203
	RN	(!CK * D * SE * !SI)	0.00001	0.00002	0.00004
	RN	(!CK * D * SE * !SI)	-0.00004	-0.00003	-0.00002
	RN	(!CK * D * SE * !SI)	0.00140	0.00151	0.00181
	RN	(!CK * D * !SE * SI)	0.00162	0.00174	0.00203
	RN	(!CK * D * !SE * SI)	0.00002	0.00003	0.00005
	RN	(!CK * D * !SE * SI)	-0.00006	-0.00003	-0.00001
	RN	(!CK * D * !SE * SI)	0.00141	0.00153	0.00183
	RN	(!CK * D * !SE * !SI)	0.00163	0.00174	0.00203
	RN	(!CK * D * !SE * !SI)	0.00002	0.00003	0.00005
	RN	(!CK * D * !SE * !SI)	-0.00006	-0.00003	-0.00001
	RN	(!CK * D * !SE * !SI)	0.00142	0.00153	0.00183
	RN	(!CK * !D * SE * SI)	0.00163	0.00174	0.00203
	RN	(!CK * !D * SE * SI)	0.00002	0.00003	0.00003
	RN	(!CK * !D * SE * SI)	-0.00005	-0.00003	0.00008
	RN	(!CK * !D * SE * SI)	0.00135	0.00153	0.00183
	RN	(!CK * !D * SE * !SI)	0.00163	0.00173	0.00203
	RN	(!CK * !D * SE * !SI)	0.00001	0.00002	0.00004
	RN	(!CK * !D * SE * !SI)	-0.00004	-0.00003	-0.00002
	RN	(!CK * !D * SE * !SI)	0.00140	0.00151	0.00181
	RN	(!CK * !D * !SE * SI)	0.00163	0.00173	0.00203
	RN	(!CK * !D * !SE * SI)	-0.00000	0.00002	0.00003
	RN	(!CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00001
	RN	(!CK * !D * !SE * SI)	0.00139	0.00151	0.00181
	RN	(!CK * !D * !SE * !SI)	0.00163	0.00173	0.00203
	RN	(!CK * !D * !SE * !SI)	0.00002	0.00002	0.00003
	RN	(!CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00001
	RN	(!CK * !D * !SE * !SI)	0.00139	0.00151	0.00181

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX0P5H7R	CK	-	0.00197	0.00206	0.00232
	CK	-	0.00000	0.00001	0.00003
	CK	-	-0.00003	-0.00002	0.00000
	CK	-	0.00233	0.00243	0.00269
	RN	(CK * D * SE * SI)	0.00220	0.00231	0.00259
	RN	(CK * D * SE * SI)	-0.00000	0.00000	0.00003
	RN	(CK * D * SE * SI)	0.00000	0.00001	0.00003
	RN	(CK * D * SE * SI)	0.00191	0.00203	0.00232
	RN	(CK * D * SE * !SI)	0.00221	0.00231	0.00259
	RN	(CK * D * SE * !SI)	-0.00002	0.00000	0.00000
	RN	(CK * D * SE * !SI)	-0.00000	0.00001	0.00003
	RN	(CK * D * SE * !SI)	0.00191	0.00203	0.00232
	RN	(CK * D * !SE * SI)	0.00220	0.00231	0.00259
	RN	(CK * D * !SE * SI)	-0.00000	0.00000	0.00003
	RN	(CK * D * !SE * SI)	-0.00002	0.00001	0.00002
	RN	(CK * D * !SE * SI)	0.00191	0.00203	0.00232
	RN	(CK * D * !SE * !SI)	0.00220	0.00231	0.00259
	RN	(CK * D * !SE * !SI)	-0.00000	0.00000	0.00003
	RN	(CK * D * !SE * !SI)	-0.00002	0.00001	0.00002
	RN	(CK * D * !SE * !SI)	0.00192	0.00203	0.00232
	RN	(CK * !D * SE * SI)	0.00220	0.00231	0.00259
	RN	(CK * !D * SE * SI)	-0.00000	0.00000	0.00003
	RN	(CK * !D * SE * SI)	0.00000	0.00001	0.00003
	RN	(CK * !D * SE * SI)	0.00191	0.00203	0.00232
	RN	(CK * !D * SE * !SI)	0.00221	0.00231	0.00259
	RN	(CK * !D * SE * !SI)	-0.00002	0.00000	0.00000
	RN	(CK * !D * SE * !SI)	-0.00002	0.00001	0.00002
	RN	(CK * !D * SE * !SI)	0.00191	0.00203	0.00232
	RN	(CK * !D * !SE * SI)	0.00221	0.00231	0.00259
	RN	(CK * !D * !SE * SI)	-0.00002	0.00000	0.00002
	RN	(CK * !D * !SE * SI)	-0.00002	0.00001	0.00002
	RN	(CK * !D * !SE * SI)	0.00191	0.00203	0.00232
	RN	(CK * !D * !SE * !SI)	0.00221	0.00231	0.00259
	RN	(CK * !D * !SE * !SI)	-0.00002	0.00000	0.00002
	RN	(CK * !D * !SE * !SI)	-0.00002	0.00001	0.00002
	RN	(CK * !D * !SE * !SI)	0.00191	0.00203	0.00232
	RN	(!CK * D * SE * SI)	0.00163	0.00174	0.00204
	RN	(!CK * D * SE * SI)	0.00002	0.00003	0.00005
	RN	(!CK * D * SE * SI)	-0.00006	-0.00003	0.00000
	RN	(!CK * D * SE * SI)	0.00141	0.00153	0.00184
	RN	(!CK * D * SE * !SI)	0.00164	0.00173	0.00203
	RN	(!CK * D * SE * !SI)	-0.00001	0.00002	0.00002
	RN	(!CK * D * SE * !SI)	-0.00005	-0.00003	-0.00003
	RN	(!CK * D * SE * !SI)	0.00140	0.00151	0.00181
	RN	(!CK * D * !SE * SI)	0.00163	0.00174	0.00204
	RN	(!CK * D * !SE * SI)	0.00002	0.00003	0.00004
	RN	(!CK * D * !SE * SI)	-0.00005	-0.00003	-0.00001
	RN	(!CK * D * !SE * SI)	0.00141	0.00153	0.00184
	RN	(!CK * D * !SE * !SI)	0.00163	0.00174	0.00204
	RN	(!CK * D * !SE * !SI)	0.00002	0.00003	0.00004
	RN	(!CK * D * !SE * !SI)	-0.00005	-0.00003	-0.00001
	RN	(!CK * D * !SE * !SI)	0.00141	0.00153	0.00184
	RN	(!CK * !D * SE * SI)	0.00163	0.00174	0.00204
	RN	(!CK * !D * SE * SI)	0.00002	0.00003	0.00005
	RN	(!CK * !D * SE * SI)	-0.00005	-0.00003	0.00000
	RN	(!CK * !D * SE * SI)	0.00140	0.00153	0.00184
	RN	(!CK * !D * SE * !SI)	0.00164	0.00173	0.00203
	RN	(!CK * !D * SE * !SI)	-0.00001	0.00002	0.00004
	RN	(!CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00002
	RN	(!CK * !D * SE * !SI)	0.00140	0.00151	0.00181
	RN	(!CK * !D * !SE * SI)	0.00161	0.00173	0.00203
	RN	(!CK * !D * !SE * SI)	0.00002	0.00002	0.00004
	RN	(!CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00002
	RN	(!CK * !D * !SE * SI)	0.00141	0.00151	0.00181
	RN	(!CK * !D * !SE * !SI)	0.00161	0.00173	0.00203
	RN	(!CK * !D * !SE * !SI)	0.00002	0.00002	0.00004
	RN	(!CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00002
	RN	(!CK * !D * !SE * !SI)	0.00141	0.00151	0.00181

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX0P5H7R	CK	-	0.00197	0.00205	0.00227
	CK	-	-0.00002	-0.00001	0.00000
	CK	-	0.00002	0.00002	0.00003
	CK	-	0.00224	0.00231	0.00254

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7R	**(D * RN * SE * SI)**	0.00152	0.00163	0.00203
	(D * RN * SE * SI)	0.00000	0.00001	0.00001
	(D * RN * SE * SI)	0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00217	0.00228	0.00269
	(D * RN * SE * !SI)	0.00158	0.00169	0.00209
	(D * RN * SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * SE * !SI)	0.00000	0.00001	0.00002
	(D * RN * SE * !SI)	0.00219	0.00231	0.00271
	(D * RN * !SE * SI)	0.00160	0.00171	0.00211
	(D * RN * !SE * SI)	0.00000	0.00001	0.00001
	(D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * SI)	0.00225	0.00236	0.00277
	(D * RN * !SE * !SI)	0.00160	0.00170	0.00211
	(D * RN * !SE * !SI)	0.00000	0.00001	0.00001
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * !SI)	0.00225	0.00236	0.00277
	(D * !RN * SE * SI)	0.00262	0.00273	0.00314
	(D * !RN * SE * SI)	-0.00003	-0.00002	-0.00002
	(D * !RN * SE * SI)	0.00003	0.00004	0.00005
	(D * !RN * SE * SI)	0.00320	0.00331	0.00372
	(D * !RN * SE * !SI)	0.00152	0.00163	0.00203
	(D * !RN * SE * !SI)	0.00000	0.00001	0.00002
	(D * !RN * SE * !SI)	0.00000	0.00001	0.00002
	(D * !RN * SE * !SI)	0.00215	0.00227	0.00267
	(D * !RN * !SE * SI)	0.00270	0.00281	0.00322
	(D * !RN * !SE * SI)	-0.00003	-0.00002	-0.00002
	(D * !RN * !SE * SI)	0.00003	0.00004	0.00005
	(D * !RN * !SE * SI)	0.00328	0.00339	0.00381
	(D * !RN * !SE * !SI)	0.00270	0.00281	0.00322
	(D * !RN * !SE * !SI)	-0.00003	-0.00002	-0.00002
	(D * !RN * !SE * !SI)	0.00003	0.00004	0.00005
	(D * !RN * !SE * !SI)	0.00328	0.00339	0.00381
	(!D * RN * SE * SI)	0.00152	0.00163	0.00203
	(!D * RN * SE * SI)	0.00000	0.00001	0.00001
	(!D * RN * SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * SI)	0.00216	0.00228	0.00269
	(!D * RN * SE * !SI)	0.00158	0.00169	0.00209
	(!D * RN * SE * !SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * !SI)	0.00000	0.00001	0.00002
	(!D * RN * SE * !SI)	0.00219	0.00231	0.00271
	(!D * RN * !SE * SI)	0.00166	0.00177	0.00217
	(!D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * SI)	0.00000	0.00001	0.00002
	(!D * RN * !SE * SI)	0.00228	0.00239	0.00279
	(!D * RN * !SE * !SI)	0.00166	0.00177	0.00217
	(!D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * !SI)	0.00000	0.00001	0.00002
	(!D * RN * !SE * !SI)	0.00228	0.00239	0.00279
	(!D * !RN * SE * SI)	0.00262	0.00273	0.00314
	(!D * !RN * SE * SI)	-0.00003	-0.00002	-0.00002
	(!D * !RN * SE * SI)	0.00003	0.00004	0.00005
	(!D * !RN * SE * SI)	0.00320	0.00331	0.00372
	(!D * !RN * SE * !SI)	0.00152	0.00163	0.00203
	(!D * !RN * SE * !SI)	0.00000	0.00001	0.00002
	(!D * !RN * SE * !SI)	0.00000	0.00001	0.00002
	(!D * !RN * SE * !SI)	0.00215	0.00227	0.00267
	(!D * !RN * !SE * SI)	0.00160	0.00171	0.00211
	(!D * !RN * !SE * SI)	0.00000	0.00001	0.00002
	(!D * !RN * !SE * SI)	0.00000	0.00001	0.00001
	(!D * !RN * !SE * SI)	0.00224	0.00235	0.00275
	(!D * !RN * !SE * !SI)	0.00160	0.00171	0.00211
	(!D * !RN * !SE * !SI)	0.00000	0.00001	0.00002
	(!D * !RN * !SE * !SI)	0.00000	0.00001	0.00001
	(!D * !RN * !SE * !SI)	0.00224	0.00235	0.00275

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7R	**(D * RN * SE * SI)**	0.00325	0.00338	0.00385
	(D * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(D * RN * SE * SI)	0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00265	0.00277	0.00324
	(D * RN * SE * !SI)	0.00341	0.00357	0.00409
	(D * RN * SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * SE * !SI)	0.00001	0.00001	0.00002
	(D * RN * SE * !SI)	0.00274	0.00290	0.00342
	(D * RN * !SE * SI)	0.00318	0.00331	0.00378
	(D * RN * !SE * SI)	-0.00001	-0.00001	-0.00000
	(D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * SI)	0.00257	0.00270	0.00317
	(D * RN * !SE * !SI)	0.00318	0.00331	0.00378
	(D * RN * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * !SI)	0.00257	0.00270	0.00316
	(D * !RN * SE * SI)	0.00243	0.00255	0.00302
	(D * !RN * SE * SI)	0.00008	0.00008	0.00009
	(D * !RN * SE * SI)	-0.00005	-0.00004	-0.00003
	(D * !RN * SE * SI)	0.00196	0.00208	0.00254
	(D * !RN * SE * !SI)	0.00217	0.00229	0.00273
	(D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00000
	(D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00000
	(D * !RN * SE * !SI)	0.00153	0.00166	0.00209
	(D * !RN * !SE * SI)	0.00234	0.00247	0.00294
	(D * !RN * !SE * SI)	0.00007	0.00008	0.00009
	(D * !RN * !SE * SI)	-0.00005	-0.00004	-0.00003
	(D * !RN * !SE * SI)	0.00188	0.00200	0.00246
	(D * !RN * !SE * !SI)	0.00235	0.00248	0.00294
	(D * !RN * !SE * !SI)	0.00007	0.00008	0.00009
	(D * !RN * !SE * !SI)	-0.00005	-0.00004	-0.00003
	(D * !RN * !SE * !SI)	0.00188	0.00200	0.00247
	(!D * RN * SE * SI)	0.00326	0.00339	0.00385
	(!D * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!D * RN * SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * SI)	0.00264	0.00277	0.00324
	(!D * RN * SE * !SI)	0.00341	0.00357	0.00409
	(!D * RN * SE * !SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * !SI)	0.00001	0.00001	0.00002
	(!D * RN * SE * !SI)	0.00274	0.00290	0.00342
	(!D * RN * !SE * SI)	0.00333	0.00348	0.00400
	(!D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * SI)	-0.00000	0.00001	0.00002
	(!D * RN * !SE * SI)	0.00266	0.00281	0.00334
	(!D * RN * !SE * !SI)	0.00333	0.00349	0.00400
	(!D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * !SI)	-0.00000	0.00001	0.00002
	(!D * RN * !SE * !SI)	0.00266	0.00281	0.00333
	(!D * !RN * SE * SI)	0.00243	0.00255	0.00302
	(!D * !RN * SE * SI)	0.00008	0.00008	0.00009
	(!D * !RN * SE * SI)	-0.00005	-0.00004	-0.00003
	(!D * !RN * SE * SI)	0.00196	0.00208	0.00254
	(!D * !RN * SE * !SI)	0.00217	0.00229	0.00273
	(!D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * SE * !SI)	0.00153	0.00166	0.00209
	(!D * !RN * !SE * SI)	0.00209	0.00221	0.00265
	(!D * !RN * !SE * SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * !SE * SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * !SE * SI)	0.00145	0.00158	0.00201
	(!D * !RN * !SE * !SI)	0.00209	0.00221	0.00265
	(!D * !RN * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * !SE * !SI)	0.00145	0.00157	0.00201

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7R	**(CK * RN * SE * SI)**	-0.00011	-0.00010	-0.00009
	(CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * SI)	0.00029	0.00029	0.00029
	(CK * RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(CK * RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(CK * RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * !SI)	0.00026	0.00026	0.00026
	(CK * RN * !SE * SI)	0.00035	0.00041	0.00063
	(CK * RN * !SE * SI)	0.00015	0.00016	0.00016
	(CK * RN * !SE * SI)	-0.00013	-0.00013	-0.00013
	(CK * RN * !SE * SI)	0.00137	0.00143	0.00165
	(CK * RN * !SE * !SI)	0.00035	0.00041	0.00063
	(CK * RN * !SE * !SI)	0.00015	0.00015	0.00016
	(CK * RN * !SE * !SI)	-0.00013	-0.00013	-0.00013
	(CK * RN * !SE * !SI)	0.00137	0.00143	0.00165
	(CK * !RN * SE * SI)	-0.00011	-0.00010	-0.00009
	(CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * SI)	0.00029	0.00029	0.00029
	(CK * !RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(CK * !RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(CK * !RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * !SI)	0.00026	0.00026	0.00026
	(CK * !RN * !SE * SI)	0.00035	0.00041	0.00063
	(CK * !RN * !SE * SI)	0.00015	0.00016	0.00016
	(CK * !RN * !SE * SI)	-0.00013	-0.00013	-0.00013
	(CK * !RN * !SE * SI)	0.00137	0.00143	0.00165
	(CK * !RN * !SE * !SI)	0.00035	0.00041	0.00063
	(CK * !RN * !SE * !SI)	0.00015	0.00015	0.00016
	(CK * !RN * !SE * !SI)	-0.00013	-0.00013	-0.00013
	(CK * !RN * !SE * !SI)	0.00137	0.00143	0.00165
	(!CK * RN * SE * SI)	-0.00011	-0.00010	-0.00009
	(!CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * RN * SE * SI)	0.00001	0.00001	0.00002
	(!CK * RN * SE * SI)	0.00029	0.00029	0.00030
	(!CK * RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(!CK * RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(!CK * RN * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * RN * SE * !SI)	0.00026	0.00026	0.00026
	(!CK * RN * !SE * SI)	0.00145	0.00150	0.00172
	(!CK * RN * !SE * SI)	0.00013	0.00014	0.00014
	(!CK * RN * !SE * SI)	-0.00013	-0.00012	-0.00012
	(!CK * RN * !SE * SI)	0.00245	0.00250	0.00271
	(!CK * RN * !SE * !SI)	0.00145	0.00151	0.00172
	(!CK * RN * !SE * !SI)	0.00013	0.00014	0.00014
	(!CK * RN * !SE * !SI)	-0.00013	-0.00012	-0.00012
	(!CK * RN * !SE * !SI)	0.00245	0.00250	0.00271
	(!CK * !RN * SE * SI)	-0.00011	-0.00010	-0.00009
	(!CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * SI)	0.00029	0.00029	0.00030
	(!CK * !RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(!CK * !RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(!CK * !RN * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * !SI)	0.00026	0.00026	0.00026
	(!CK * !RN * !SE * SI)	0.00064	0.00069	0.00086
	(!CK * !RN * !SE * SI)	0.00024	0.00024	0.00024
	(!CK * !RN * !SE * SI)	-0.00013	-0.00013	-0.00012
	(!CK * !RN * !SE * SI)	0.00181	0.00186	0.00202
	(!CK * !RN * !SE * !SI)	0.00064	0.00069	0.00086
	(!CK * !RN * !SE * !SI)	0.00024	0.00024	0.00024
	(!CK * !RN * !SE * !SI)	-0.00012	-0.00012	-0.00012
	(!CK * !RN * !SE * !SI)	0.00182	0.00186	0.00202

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7R	**(CK * RN * SE * SI)**	0.00011	0.00012	0.00012
	(CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * SI)	-0.00029	-0.00028	-0.00028
	(CK * RN * SE * !SI)	0.00015	0.00015	0.00016
	(CK * RN * SE * !SI)	0.00001	0.00002	0.00002
	(CK * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * !SI)	-0.00025	-0.00024	-0.00023
	(CK * RN * !SE * SI)	0.00116	0.00122	0.00146
	(CK * RN * !SE * SI)	-0.00016	-0.00015	-0.00015
	(CK * RN * !SE * SI)	0.00013	0.00013	0.00013
	(CK * RN * !SE * SI)	0.00014	0.00020	0.00044
	(CK * RN * !SE * !SI)	0.00116	0.00122	0.00146
	(CK * RN * !SE * !SI)	-0.00016	-0.00015	-0.00015
	(CK * RN * !SE * !SI)	0.00013	0.00013	0.00013
	(CK * RN * !SE * !SI)	0.00014	0.00020	0.00044
	(CK * !RN * SE * SI)	0.00011	0.00012	0.00012
	(CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * SI)	-0.00029	-0.00028	-0.00028
	(CK * !RN * SE * !SI)	0.00015	0.00015	0.00016
	(CK * !RN * SE * !SI)	0.00001	0.00002	0.00002
	(CK * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * !SI)	-0.00025	-0.00024	-0.00023
	(CK * !RN * !SE * SI)	0.00116	0.00122	0.00146
	(CK * !RN * !SE * SI)	-0.00016	-0.00016	-0.00015
	(CK * !RN * !SE * SI)	0.00013	0.00013	0.00013
	(CK * !RN * !SE * SI)	0.00014	0.00020	0.00044
	(CK * !RN * !SE * !SI)	0.00116	0.00122	0.00146
	(CK * !RN * !SE * !SI)	-0.00016	-0.00015	-0.00015
	(CK * !RN * !SE * !SI)	0.00013	0.00013	0.00014
	(CK * !RN * !SE * !SI)	0.00014	0.00020	0.00044
	(!CK * RN * SE * SI)	0.00011	0.00012	0.00012
	(!CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * RN * SE * SI)	-0.00029	-0.00028	-0.00028
	(!CK * RN * SE * !SI)	0.00015	0.00015	0.00016
	(!CK * RN * SE * !SI)	0.00001	0.00001	0.00002
	(!CK * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CK * RN * SE * !SI)	-0.00025	-0.00024	-0.00023
	(!CK * RN * !SE * SI)	0.00215	0.00222	0.00246
	(!CK * RN * !SE * SI)	-0.00014	-0.00014	-0.00013
	(!CK * RN * !SE * SI)	0.00012	0.00013	0.00013
	(!CK * RN * !SE * SI)	0.00115	0.00121	0.00146
	(!CK * RN * !SE * !SI)	0.00215	0.00222	0.00246
	(!CK * RN * !SE * !SI)	-0.00014	-0.00014	-0.00013
	(!CK * RN * !SE * !SI)	0.00012	0.00013	0.00013
	(!CK * RN * !SE * !SI)	0.00115	0.00122	0.00146
	(!CK * !RN * SE * SI)	0.00011	0.00012	0.00012
	(!CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * SI)	-0.00029	-0.00028	-0.00028
	(!CK * !RN * SE * !SI)	0.00015	0.00015	0.00016
	(!CK * !RN * SE * !SI)	0.00001	0.00001	0.00002
	(!CK * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * !SI)	-0.00025	-0.00024	-0.00023
	(!CK * !RN * !SE * SI)	0.00226	0.00232	0.00252
	(!CK * !RN * !SE * SI)	-0.00017	-0.00016	-0.00016
	(!CK * !RN * !SE * SI)	0.00012	0.00013	0.00013
	(!CK * !RN * !SE * SI)	0.00124	0.00130	0.00151
	(!CK * !RN * !SE * !SI)	0.00227	0.00233	0.00253
	(!CK * !RN * !SE * !SI)	-0.00015	-0.00015	-0.00014
	(!CK * !RN * !SE * !SI)	0.00012	0.00012	0.00012
	(!CK * !RN * !SE * !SI)	0.00127	0.00132	0.00153

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7R	**(CK * D * SE * SI)**	0.00008	0.00023	0.00075
	(CK * D * SE * SI)	0.00004	0.00004	0.00005
	(CK * D * SE * SI)	-0.00003	-0.00002	-0.00002
	(CK * D * SE * SI)	0.00072	0.00086	0.00139
	(CK * D * SE * !SI)	0.00008	0.00023	0.00075
	(CK * D * SE * !SI)	0.00004	0.00004	0.00005
	(CK * D * SE * !SI)	-0.00003	-0.00002	-0.00002
	(CK * D * SE * !SI)	0.00072	0.00086	0.00139
	(CK * D * !SE * SI)	0.00008	0.00023	0.00075
	(CK * D * !SE * SI)	0.00004	0.00004	0.00005
	(CK * D * !SE * SI)	-0.00003	-0.00002	-0.00002
	(CK * D * !SE * SI)	0.00072	0.00086	0.00139
	(CK * D * !SE * !SI)	0.00008	0.00023	0.00075
	(CK * D * !SE * !SI)	0.00004	0.00004	0.00005
	(CK * D * !SE * !SI)	-0.00003	-0.00002	-0.00002
	(CK * D * !SE * !SI)	0.00072	0.00086	0.00139
	(CK * !D * SE * SI)	0.00008	0.00023	0.00075
	(CK * !D * SE * SI)	0.00004	0.00004	0.00005
	(CK * !D * SE * SI)	-0.00003	-0.00002	-0.00002
	(CK * !D * SE * SI)	0.00072	0.00086	0.00139
	(CK * !D * SE * !SI)	0.00008	0.00023	0.00075
	(CK * !D * SE * !SI)	0.00004	0.00004	0.00005
	(CK * !D * SE * !SI)	-0.00003	-0.00002	-0.00002
	(CK * !D * SE * !SI)	0.00072	0.00086	0.00139
	(CK * !D * !SE * SI)	0.00008	0.00023	0.00075
	(CK * !D * !SE * SI)	0.00004	0.00004	0.00005
	(CK * !D * !SE * SI)	-0.00003	-0.00002	-0.00002
	(CK * !D * !SE * SI)	0.00072	0.00086	0.00139
	(CK * !D * !SE * !SI)	0.00008	0.00023	0.00075
	(CK * !D * !SE * !SI)	0.00004	0.00004	0.00005
	(CK * !D * !SE * !SI)	-0.00003	-0.00002	-0.00002
	(CK * !D * !SE * !SI)	0.00072	0.00086	0.00139
	(!CK * D * SE * SI)	0.00089	0.00103	0.00155
	(!CK * D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * SI)	0.00001	0.00001	0.00002
	(!CK * D * SE * SI)	0.00135	0.00150	0.00202
	(!CK * D * SE * !SI)	0.00009	0.00024	0.00076
	(!CK * D * SE * !SI)	0.00004	0.00004	0.00004
	(!CK * D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * SE * !SI)	0.00072	0.00087	0.00139
	(!CK * D * !SE * SI)	0.00088	0.00104	0.00156
	(!CK * D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * SI)	0.00000	0.00001	0.00001
	(!CK * D * !SE * SI)	0.00135	0.00150	0.00202
	(!CK * D * !SE * !SI)	0.00088	0.00104	0.00156
	(!CK * D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * !SI)	0.00000	0.00001	0.00001
	(!CK * D * !SE * !SI)	0.00135	0.00150	0.00202
	(!CK * !D * SE * SI)	0.00089	0.00103	0.00155
	(!CK * !D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * SI)	0.00001	0.00001	0.00002
	(!CK * !D * SE * SI)	0.00135	0.00150	0.00202
	(!CK * !D * SE * !SI)	0.00009	0.00024	0.00076
	(!CK * !D * SE * !SI)	0.00004	0.00004	0.00004
	(!CK * !D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * SE * !SI)	0.00072	0.00087	0.00139
	(!CK * !D * !SE * SI)	0.00009	0.00024	0.00076
	(!CK * !D * !SE * SI)	0.00004	0.00004	0.00004
	(!CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SE * SI)	0.00072	0.00087	0.00139
	(!CK * !D * !SE * !SI)	0.00009	0.00024	0.00076
	(!CK * !D * !SE * !SI)	0.00004	0.00004	0.00004
	(!CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SE * !SI)	0.00072	0.00087	0.00139

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7R	**(CK * D * SE * SI)**	0.00074	0.00090	0.00146
	(CK * D * SE * SI)	-0.00005	-0.00004	-0.00004
	(CK * D * SE * SI)	0.00002	0.00003	0.00003
	(CK * D * SE * SI)	0.00010	0.00026	0.00082
	(CK * D * SE * !SI)	0.00074	0.00090	0.00146
	(CK * D * SE * !SI)	-0.00005	-0.00004	-0.00004
	(CK * D * SE * !SI)	0.00002	0.00003	0.00003
	(CK * D * SE * !SI)	0.00010	0.00026	0.00082
	(CK * D * !SE * SI)	0.00074	0.00090	0.00146
	(CK * D * !SE * SI)	-0.00005	-0.00004	-0.00004
	(CK * D * !SE * SI)	0.00002	0.00003	0.00003
	(CK * D * !SE * SI)	0.00010	0.00026	0.00082
	(CK * D * !SE * !SI)	0.00074	0.00090	0.00146
	(CK * D * !SE * !SI)	-0.00005	-0.00004	-0.00004
	(CK * D * !SE * !SI)	0.00002	0.00003	0.00003
	(CK * D * !SE * !SI)	0.00010	0.00026	0.00082
	(CK * !D * SE * SI)	0.00074	0.00090	0.00146
	(CK * !D * SE * SI)	-0.00005	-0.00004	-0.00004
	(CK * !D * SE * SI)	0.00002	0.00003	0.00003
	(CK * !D * SE * SI)	0.00010	0.00026	0.00082
	(CK * !D * SE * !SI)	0.00074	0.00090	0.00146
	(CK * !D * SE * !SI)	-0.00005	-0.00004	-0.00004
	(CK * !D * SE * !SI)	0.00002	0.00003	0.00003
	(CK * !D * SE * !SI)	0.00010	0.00026	0.00082
	(CK * !D * !SE * SI)	0.00074	0.00090	0.00146
	(CK * !D * !SE * SI)	-0.00005	-0.00004	-0.00004
	(CK * !D * !SE * SI)	0.00002	0.00003	0.00003
	(CK * !D * !SE * SI)	0.00010	0.00026	0.00082
	(CK * !D * !SE * !SI)	0.00074	0.00090	0.00146
	(CK * !D * !SE * !SI)	-0.00005	-0.00004	-0.00004
	(CK * !D * !SE * !SI)	0.00002	0.00003	0.00003
	(CK * !D * !SE * !SI)	0.00010	0.00026	0.00082
	(!CK * D * SE * SI)	0.00075	0.00091	0.00146
	(!CK * D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * SI)	0.00003	0.00003	0.00003
	(!CK * D * SE * SI)	0.00011	0.00027	0.00083
	(!CK * D * SE * !SI)	0.00073	0.00089	0.00145
	(!CK * D * SE * !SI)	-0.00004	-0.00004	-0.00004
	(!CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * !SI)	0.00010	0.00026	0.00081
	(!CK * D * !SE * SI)	0.00075	0.00091	0.00146
	(!CK * D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * SI)	0.00003	0.00003	0.00003
	(!CK * D * !SE * SI)	0.00011	0.00027	0.00083
	(!CK * D * !SE * !SI)	0.00075	0.00091	0.00146
	(!CK * D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * !SI)	0.00003	0.00003	0.00003
	(!CK * D * !SE * !SI)	0.00011	0.00027	0.00083
	(!CK * !D * SE * SI)	0.00075	0.00091	0.00146
	(!CK * !D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * SI)	0.00003	0.00003	0.00003
	(!CK * !D * SE * SI)	0.00011	0.00027	0.00083
	(!CK * !D * SE * !SI)	0.00073	0.00089	0.00145
	(!CK * !D * SE * !SI)	-0.00004	-0.00004	-0.00004
	(!CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * !SI)	0.00010	0.00026	0.00081
	(!CK * !D * !SE * SI)	0.00073	0.00089	0.00145
	(!CK * !D * !SE * SI)	-0.00004	-0.00004	-0.00004
	(!CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * SI)	0.00010	0.00026	0.00081
	(!CK * !D * !SE * !SI)	0.00073	0.00089	0.00145
	(!CK * !D * !SE * !SI)	-0.00004	-0.00004	-0.00004
	(!CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * !SI)	0.00010	0.00026	0.00081

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7R	**(CK * D * RN * SI)**	-0.00013	0.00000	0.00049
	(CK * D * RN * SI)	0.00003	0.00003	0.00003
	(CK * D * RN * SI)	-0.00002	-0.00002	-0.00001
	(CK * D * RN * SI)	0.00103	0.00116	0.00165
	(CK * D * RN * !SI)	0.00112	0.00125	0.00170
	(CK * D * RN * !SI)	-0.00009	-0.00009	-0.00009
	(CK * D * RN * !SI)	0.00006	0.00008	0.00009
	(CK * D * RN * !SI)	0.00180	0.00194	0.00239
	(CK * D * !RN * SI)	-0.00013	0.00000	0.00049
	(CK * D * !RN * SI)	0.00003	0.00003	0.00003
	(CK * D * !RN * SI)	-0.00002	-0.00002	-0.00001
	(CK * D * !RN * SI)	0.00103	0.00116	0.00165
	(CK * D * !RN * !SI)	0.00112	0.00125	0.00170
	(CK * D * !RN * !SI)	-0.00009	-0.00009	-0.00009
	(CK * D * !RN * !SI)	0.00006	0.00007	0.00008
	(CK * D * !RN * !SI)	0.00180	0.00194	0.00239
	(CK * !D * RN * SI)	-0.00005	0.00020	0.00112
	(CK * !D * RN * SI)	0.00015	0.00015	0.00015
	(CK * !D * RN * SI)	-0.00013	-0.00012	-0.00011
	(CK * !D * RN * SI)	0.00157	0.00183	0.00275
	(CK * !D * RN * !SI)	-0.00005	0.00009	0.00058
	(CK * !D * RN * !SI)	0.00002	0.00003	0.00003
	(CK * !D * RN * !SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * RN * !SI)	0.00110	0.00124	0.00174
	(CK * !D * !RN * SI)	-0.00005	0.00020	0.00112
	(CK * !D * !RN * SI)	0.00015	0.00015	0.00016
	(CK * !D * !RN * SI)	-0.00013	-0.00012	-0.00012
	(CK * !D * !RN * SI)	0.00157	0.00183	0.00275
	(CK * !D * !RN * !SI)	-0.00005	0.00009	0.00058
	(CK * !D * !RN * !SI)	0.00003	0.00003	0.00003
	(CK * !D * !RN * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !RN * !SI)	0.00110	0.00124	0.00174
	(!CK * D * RN * SI)	-0.00004	0.00009	0.00057
	(!CK * D * RN * SI)	0.00003	0.00003	0.00003
	(!CK * D * RN * SI)	-0.00002	-0.00002	-0.00000
	(!CK * D * RN * SI)	0.00111	0.00124	0.00173
	(!CK * D * RN * !SI)	0.00218	0.00231	0.00277
	(!CK * D * RN * !SI)	-0.00008	-0.00007	-0.00007
	(!CK * D * RN * !SI)	0.00005	0.00007	0.00007
	(!CK * D * RN * !SI)	0.00289	0.00302	0.00349
	(!CK * D * !RN * SI)	-0.00005	0.00009	0.00057
	(!CK * D * !RN * SI)	0.00003	0.00003	0.00004
	(!CK * D * !RN * SI)	-0.00002	-0.00002	-0.00000
	(!CK * D * !RN * SI)	0.00111	0.00124	0.00173
	(!CK * D * !RN * !SI)	0.00232	0.00244	0.00288
	(!CK * D * !RN * !SI)	-0.00011	-0.00010	-0.00009
	(!CK * D * !RN * !SI)	0.00010	0.00011	0.00013
	(!CK * D * !RN * !SI)	0.00293	0.00306	0.00350
	(!CK * !D * RN * SI)	0.00113	0.00137	0.00224
	(!CK * !D * RN * SI)	0.00013	0.00013	0.00014
	(!CK * !D * RN * SI)	-0.00012	-0.00012	-0.00011
	(!CK * !D * RN * SI)	0.00273	0.00298	0.00386
	(!CK * !D * RN * !SI)	0.00003	0.00017	0.00066
	(!CK * !D * RN * !SI)	0.00002	0.00003	0.00003
	(!CK * !D * RN * !SI)	-0.00003	-0.00002	-0.00002
	(!CK * !D * RN * !SI)	0.00118	0.00132	0.00182
	(!CK * !D * !RN * SI)	0.00032	0.00054	0.00136
	(!CK * !D * !RN * SI)	0.00023	0.00024	0.00024
	(!CK * !D * !RN * SI)	-0.00017	-0.00016	-0.00015
	(!CK * !D * !RN * SI)	0.00211	0.00233	0.00314
	(!CK * !D * !RN * !SI)	0.00003	0.00017	0.00066
	(!CK * !D * !RN * !SI)	0.00002	0.00003	0.00003
	(!CK * !D * !RN * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !RN * !SI)	0.00118	0.00132	0.00182

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7R	**(CK * D * RN * SI)**	0.00111	0.00126	0.00180
	(CK * D * RN * SI)	-0.00003	-0.00003	-0.00003
	(CK * D * RN * SI)	0.00002	0.00002	0.00003
	(CK * D * RN * SI)	-0.00005	0.00010	0.00064
	(CK * D * RN * !SI)	0.00160	0.00176	0.00229
	(CK * D * RN * !SI)	0.00009	0.00009	0.00010
	(CK * D * RN * !SI)	-0.00008	-0.00007	-0.00006
	(CK * D * RN * !SI)	0.00092	0.00107	0.00161
	(CK * D * !RN * SI)	0.00111	0.00126	0.00180
	(CK * D * !RN * SI)	-0.00003	-0.00003	-0.00003
	(CK * D * !RN * SI)	0.00002	0.00002	0.00003
	(CK * D * !RN * SI)	-0.00005	0.00010	0.00064
	(CK * D * !RN * !SI)	0.00160	0.00176	0.00229
	(CK * D * !RN * !SI)	0.00009	0.00009	0.00010
	(CK * D * !RN * !SI)	-0.00008	-0.00007	-0.00006
	(CK * D * !RN * !SI)	0.00092	0.00107	0.00161
	(CK * !D * RN * SI)	0.00174	0.00202	0.00301
	(CK * !D * RN * SI)	-0.00015	-0.00015	-0.00014
	(CK * !D * RN * SI)	0.00011	0.00012	0.00013
	(CK * !D * RN * SI)	0.00012	0.00040	0.00138
	(CK * !D * RN * !SI)	0.00102	0.00118	0.00171
	(CK * !D * RN * !SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * RN * !SI)	0.00002	0.00002	0.00002
	(CK * !D * RN * !SI)	-0.00014	0.00002	0.00055
	(CK * !D * !RN * SI)	0.00174	0.00202	0.00301
	(CK * !D * !RN * SI)	-0.00016	-0.00015	-0.00014
	(CK * !D * !RN * SI)	0.00012	0.00013	0.00013
	(CK * !D * !RN * SI)	0.00012	0.00040	0.00138
	(CK * !D * !RN * !SI)	0.00102	0.00117	0.00171
	(CK * !D * !RN * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * !RN * !SI)	0.00002	0.00002	0.00002
	(CK * !D * !RN * !SI)	-0.00013	0.00002	0.00055
	(!CK * D * RN * SI)	0.00103	0.00118	0.00172
	(!CK * D * RN * SI)	-0.00003	-0.00003	-0.00003
	(!CK * D * RN * SI)	0.00001	0.00002	0.00002
	(!CK * D * RN * SI)	-0.00013	0.00002	0.00056
	(!CK * D * RN * !SI)	0.00260	0.00275	0.00330
	(!CK * D * RN * !SI)	0.00007	0.00007	0.00009
	(!CK * D * RN * !SI)	-0.00007	-0.00007	-0.00005
	(!CK * D * RN * !SI)	0.00188	0.00204	0.00260
	(!CK * D * !RN * SI)	0.00103	0.00118	0.00172
	(!CK * D * !RN * SI)	-0.00003	-0.00003	-0.00003
	(!CK * D * !RN * SI)	0.00001	0.00002	0.00002
	(!CK * D * !RN * SI)	-0.00013	0.00002	0.00056
	(!CK * D * !RN * !SI)	0.00179	0.00195	0.00249
	(!CK * D * !RN * !SI)	0.00017	0.00017	0.00018
	(!CK * D * !RN * !SI)	-0.00013	-0.00011	-0.00010
	(!CK * D * !RN * !SI)	0.00125	0.00141	0.00195
	(!CK * !D * RN * SI)	0.00267	0.00293	0.00388
	(!CK * !D * RN * SI)	-0.00014	-0.00013	-0.00013
	(!CK * !D * RN * SI)	0.00011	0.00012	0.00013
	(!CK * !D * RN * SI)	0.00106	0.00132	0.00227
	(!CK * !D * RN * !SI)	0.00094	0.00109	0.00162
	(!CK * !D * RN * !SI)	-0.00003	-0.00003	-0.00002
	(!CK * !D * RN * !SI)	0.00002	0.00002	0.00003
	(!CK * !D * RN * !SI)	-0.00022	-0.00007	0.00047
	(!CK * !D * !RN * SI)	0.00284	0.00309	0.00397
	(!CK * !D * !RN * SI)	-0.00016	-0.00015	-0.00014
	(!CK * !D * !RN * SI)	0.00015	0.00016	0.00017
	(!CK * !D * !RN * SI)	0.00115	0.00140	0.00229
	(!CK * !D * !RN * !SI)	0.00094	0.00109	0.00162
	(!CK * !D * !RN * !SI)	-0.00003	-0.00003	-0.00001
	(!CK * !D * !RN * !SI)	0.00002	0.00002	0.00003
	(!CK * !D * !RN * !SI)	-0.00022	-0.00007	0.00047

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7R	**(CK * D * RN * SE)**	0.00009	0.00014	0.00034
	(CK * D * RN * SE)	0.00015	0.00015	0.00015
	(CK * D * RN * SE)	-0.00012	-0.00012	-0.00012
	(CK * D * RN * SE)	0.00105	0.00110	0.00129
	(CK * D * RN * !SE)	-0.00016	-0.00015	-0.00014
	(CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * RN * !SE)	0.00001	0.00001	0.00002
	(CK * D * RN * !SE)	0.00019	0.00019	0.00019
	(CK * D * !RN * SE)	0.00009	0.00014	0.00034
	(CK * D * !RN * SE)	0.00015	0.00015	0.00016
	(CK * D * !RN * SE)	-0.00012	-0.00012	-0.00012
	(CK * D * !RN * SE)	0.00105	0.00109	0.00129
	(CK * D * !RN * !SE)	-0.00016	-0.00015	-0.00014
	(CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * !RN * !SE)	0.00001	0.00001	0.00002
	(CK * D * !RN * !SE)	0.00019	0.00019	0.00019
	(CK * !D * RN * SE)	0.00009	0.00014	0.00034
	(CK * !D * RN * SE)	0.00015	0.00015	0.00015
	(CK * !D * RN * SE)	-0.00013	-0.00013	-0.00012
	(CK * !D * RN * SE)	0.00105	0.00110	0.00129
	(CK * !D * RN * !SE)	-0.00016	-0.00016	-0.00015
	(CK * !D * RN * !SE)	-0.00002	-0.00001	-0.00001
	(CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * RN * !SE)	0.00019	0.00019	0.00020
	(CK * !D * !RN * SE)	0.00009	0.00014	0.00034
	(CK * !D * !RN * SE)	0.00015	0.00015	0.00015
	(CK * !D * !RN * SE)	-0.00013	-0.00013	-0.00012
	(CK * !D * !RN * SE)	0.00105	0.00110	0.00129
	(CK * !D * !RN * !SE)	-0.00016	-0.00016	-0.00015
	(CK * !D * !RN * !SE)	-0.00002	-0.00001	-0.00001
	(CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * !RN * !SE)	0.00019	0.00019	0.00020
	(!CK * D * RN * SE)	0.00118	0.00123	0.00143
	(!CK * D * RN * SE)	0.00013	0.00014	0.00014
	(!CK * D * RN * SE)	-0.00012	-0.00012	-0.00011
	(!CK * D * RN * SE)	0.00212	0.00217	0.00237
	(!CK * D * RN * !SE)	-0.00016	-0.00015	-0.00014
	(!CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * RN * !SE)	0.00019	0.00019	0.00020
	(!CK * D * !RN * SE)	0.00038	0.00042	0.00057
	(!CK * D * !RN * SE)	0.00023	0.00024	0.00024
	(!CK * D * !RN * SE)	-0.00012	-0.00012	-0.00011
	(!CK * D * !RN * SE)	0.00148	0.00152	0.00167
	(!CK * D * !RN * !SE)	-0.00016	-0.00016	-0.00014
	(!CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * !RN * !SE)	0.00019	0.00019	0.00020
	(!CK * !D * RN * SE)	0.00119	0.00124	0.00144
	(!CK * !D * RN * SE)	0.00013	0.00014	0.00014
	(!CK * !D * RN * SE)	-0.00012	-0.00012	-0.00011
	(!CK * !D * RN * SE)	0.00212	0.00217	0.00237
	(!CK * !D * RN * !SE)	-0.00016	-0.00016	-0.00015
	(!CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * RN * !SE)	0.00019	0.00019	0.00019
	(!CK * !D * !RN * SE)	0.00038	0.00042	0.00057
	(!CK * !D * !RN * SE)	0.00023	0.00023	0.00024
	(!CK * !D * !RN * SE)	-0.00012	-0.00012	-0.00011
	(!CK * !D * !RN * SE)	0.00149	0.00152	0.00167
	(!CK * !D * !RN * !SE)	-0.00016	-0.00016	-0.00015
	(!CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * !RN * !SE)	0.00019	0.00019	0.00019

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX0P5H7R	**(CK * D * RN * SE)**	0.00138	0.00144	0.00165
	(CK * D * RN * SE)	-0.00015	-0.00015	-0.00015
	(CK * D * RN * SE)	0.00012	0.00012	0.00012
	(CK * D * RN * SE)	0.00043	0.00049	0.00070
	(CK * D * RN * !SE)	0.00017	0.00017	0.00017
	(CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * RN * !SE)	-0.00019	-0.00018	-0.00018
	(CK * D * !RN * SE)	0.00138	0.00144	0.00165
	(CK * D * !RN * SE)	-0.00015	-0.00015	-0.00015
	(CK * D * !RN * SE)	0.00012	0.00012	0.00012
	(CK * D * !RN * SE)	0.00043	0.00048	0.00070
	(CK * D * !RN * !SE)	0.00017	0.00017	0.00017
	(CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * !RN * !SE)	-0.00019	-0.00018	-0.00018
	(CK * !D * RN * SE)	0.00138	0.00144	0.00165
	(CK * !D * RN * SE)	-0.00015	-0.00015	-0.00015
	(CK * !D * RN * SE)	0.00012	0.00013	0.00013
	(CK * !D * RN * SE)	0.00043	0.00048	0.00070
	(CK * !D * RN * !SE)	0.00016	0.00017	0.00017
	(CK * !D * RN * !SE)	0.00001	0.00001	0.00002
	(CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * RN * !SE)	-0.00019	-0.00018	-0.00017
	(CK * !D * !RN * SE)	0.00138	0.00144	0.00165
	(CK * !D * !RN * SE)	-0.00015	-0.00015	-0.00015
	(CK * !D * !RN * SE)	0.00012	0.00013	0.00013
	(CK * !D * !RN * SE)	0.00043	0.00048	0.00070
	(CK * !D * !RN * !SE)	0.00016	0.00017	0.00017
	(CK * !D * !RN * !SE)	0.00001	0.00001	0.00002
	(CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * !RN * !SE)	-0.00019	-0.00018	-0.00017
	(!CK * D * RN * SE)	0.00238	0.00244	0.00265
	(!CK * D * RN * SE)	-0.00014	-0.00014	-0.00013
	(!CK * D * RN * SE)	0.00012	0.00012	0.00012
	(!CK * D * RN * SE)	0.00145	0.00150	0.00172
	(!CK * D * RN * !SE)	0.00017	0.00017	0.00017
	(!CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * RN * !SE)	-0.00019	-0.00018	-0.00017
	(!CK * D * !RN * SE)	0.00249	0.00253	0.00271
	(!CK * D * !RN * SE)	-0.00016	-0.00016	-0.00015
	(!CK * D * !RN * SE)	0.00011	0.00012	0.00012
	(!CK * D * !RN * SE)	0.00154	0.00159	0.00177
	(!CK * D * !RN * !SE)	0.00016	0.00017	0.00017
	(!CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * !RN * !SE)	-0.00019	-0.00018	-0.00018
	(!CK * !D * RN * SE)	0.00238	0.00244	0.00265
	(!CK * !D * RN * SE)	-0.00014	-0.00014	-0.00013
	(!CK * !D * RN * SE)	0.00012	0.00012	0.00012
	(!CK * !D * RN * SE)	0.00144	0.00150	0.00172
	(!CK * !D * RN * !SE)	0.00016	0.00017	0.00017
	(!CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * RN * !SE)	-0.00019	-0.00018	-0.00017
	(!CK * !D * !RN * SE)	0.00249	0.00254	0.00272
	(!CK * !D * !RN * SE)	-0.00015	-0.00014	-0.00013
	(!CK * !D * !RN * SE)	0.00011	0.00012	0.00012
	(!CK * !D * !RN * SE)	0.00155	0.00161	0.00179
	(!CK * !D * !RN * !SE)	0.00016	0.00017	0.00017
	(!CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !RN * !SE)	-0.00019	-0.00018	-0.00017

SDFFRX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q = !RN ?0 : falling (CKN) ? (SE&SI| !SE&D) : prev_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	RN	SE	SI	Q	QN
R	0	1	0	x	0	1
R	x	1	1	0	0	1
R	x	1	1	1	1	0
R	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFRX1H7R	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	RN	SE	SI	Q	QN
SDFFRX1H7R	0.00090	0.00075	0.00079	0.00183	0.00069	0.07055	0.07038

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRX1H7R	0.00000	1.35203	1.73684

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX1H7R	CK->Q (RR)	-	0.13152	0.27952	0.64070

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX1H7R	CK->Q (RF)	-	0.11479	0.23964	0.52893
	RN->Q (FF)	(CK * D * SE * SI)	0.09930	0.22042	0.51053
	RN->Q (FF)	(CK * D * SE * !SI)	0.09930	0.22042	0.51051
	RN->Q (FF)	(CK * D * !SE * SI)	0.09930	0.22042	0.51053
	RN->Q (FF)	(CK * D * !SE * !SI)	0.09930	0.22042	0.51053
	RN->Q (FF)	(CK * !D * SE * SI)	0.09930	0.22042	0.51053
	RN->Q (FF)	(CK * !D * SE * !SI)	0.09930	0.22042	0.51051
	RN->Q (FF)	(CK * !D * !SE * SI)	0.09930	0.22042	0.51053
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.09930	0.22042	0.51053
	RN->Q (FF)	(!CK * D * SE * SI)	0.09052	0.21121	0.50139
	RN->Q (FF)	(!CK * D * SE * !SI)	0.08880	0.20907	0.49816
	RN->Q (FF)	(!CK * D * !SE * SI)	0.09052	0.21120	0.50140
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.09052	0.21120	0.50140
	RN->Q (FF)	(!CK * !D * SE * SI)	0.09052	0.21121	0.50139
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.08880	0.20907	0.49816
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.08880	0.20907	0.49814
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.08880	0.20907	0.49814

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX1H7R	CK->QN (RR)	-	0.08661	0.23977	0.59908
	RN->QN (FR)	(CK * D * SE * SI)	0.06808	0.22103	0.58281
	RN->QN (FR)	(CK * D * SE * !SI)	0.06809	0.22103	0.58329
	RN->QN (FR)	(CK * D * !SE * SI)	0.06809	0.22104	0.58329
	RN->QN (FR)	(CK * D * !SE * !SI)	0.06809	0.22104	0.58329
	RN->QN (FR)	(CK * !D * SE * SI)	0.06808	0.22102	0.58281
	RN->QN (FR)	(CK * !D * SE * !SI)	0.06809	0.22103	0.58328
	RN->QN (FR)	(CK * !D * !SE * SI)	0.06809	0.22104	0.58329
	RN->QN (FR)	(CK * !D * !SE * !SI)	0.06809	0.22104	0.58329
	RN->QN (FR)	(!CK * D * SE * SI)	0.06235	0.21022	0.56972
	RN->QN (FR)	(!CK * D * SE * !SI)	0.06115	0.20824	0.56674
	RN->QN (FR)	(!CK * D * !SE * SI)	0.06235	0.21022	0.56973
	RN->QN (FR)	(!CK * D * !SE * !SI)	0.06235	0.21022	0.56973
	RN->QN (FR)	(!CK * !D * SE * SI)	0.06235	0.21022	0.56972
	RN->QN (FR)	(!CK * !D * SE * !SI)	0.06115	0.20824	0.56674
	RN->QN (FR)	(!CK * !D * !SE * SI)	0.06115	0.20824	0.56676
	RN->QN (FR)	(!CK * !D * !SE * !SI)	0.06115	0.20824	0.56676

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX1H7R	CK->QN (RF)	-	0.09678	0.24584	0.55516

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7R	**hold**	**CK (R)**	-0.11459	-0.05492	-0.01749
	setup	**CK (R)**	0.03666	0.08524	0.17167

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7R	**hold**	**CK (R)**	-0.13826	-0.03644	0.04782
	setup	**CK (R)**	-0.01921	0.07632	0.20368

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRX1H7R	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7R	**hold**	**CK (R)**	-0.03380	0.02175	0.09024
	setup	**CK (R)**	-0.02890	0.02883	0.08912

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7R	hold	CK (R)	-0.09323	-0.03507	0.02254
	setup	CK (R)	0.03678	0.08892	0.16806

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7R	hold	CK (R)	-0.10180	-0.01633	0.07064
	setup	CK (R)	0.04575	0.09853	0.18538

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7R	hold	CK (R)	-0.12483	-0.06184	-0.02167
	setup	CK (R)	0.04187	0.09326	0.18741

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX1H7R	hold	CK (R)	-0.14232	-0.04137	0.04495
	setup	CK (R)	-0.01273	0.08362	0.21026

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX1H7R	CK	-	0.00208	0.00215	0.00239
	CK	-	-0.00001	-0.00001	0.00000
	CK	-	0.00000	0.00002	0.00004
	CK	-	0.00234	0.00243	0.00267

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX1H7R	CK	-	0.00204	0.00214	0.00240
	CK	-	0.00000	0.00001	0.00001
	CK	-	-0.00003	-0.00002	0.00000
	CK	-	0.00241	0.00251	0.00278
	RN	(CK * D * SE * SI)	0.00226	0.00236	0.00264
	RN	(CK * D * SE * SI)	-0.00001	0.00000	0.00001
	RN	(CK * D * SE * SI)	-0.00002	0.00000	0.00001
	RN	(CK * D * SE * SI)	0.00199	0.00209	0.00238
	RN	(CK * D * SE * !SI)	0.00224	0.00236	0.00265
	RN	(CK * D * SE * !SI)	-0.00001	0.00001	0.00001
	RN	(CK * D * SE * !SI)	-0.00002	0.00000	0.00002
	RN	(CK * D * SE * !SI)	0.00197	0.00209	0.00238
	RN	(CK * D * !SE * SI)	0.00225	0.00236	0.00264
	RN	(CK * D * !SE * SI)	-0.00001	0.00001	0.00002
	RN	(CK * D * !SE * SI)	-0.00002	0.00000	0.00000
	RN	(CK * D * !SE * SI)	0.00199	0.00209	0.00238
	RN	(CK * D * !SE * !SI)	0.00225	0.00236	0.00264
	RN	(CK * D * !SE * !SI)	-0.00001	0.00001	0.00002
	RN	(CK * D * !SE * !SI)	-0.00002	0.00000	0.00000
	RN	(CK * D * !SE * !SI)	0.00199	0.00209	0.00238
	RN	(CK * !D * SE * SI)	0.00226	0.00236	0.00264
	RN	(CK * !D * SE * SI)	-0.00001	0.00000	0.00001
	RN	(CK * !D * SE * SI)	-0.00002	0.00000	0.00001
	RN	(CK * !D * SE * SI)	0.00199	0.00209	0.00238
	RN	(CK * !D * SE * !SI)	0.00224	0.00236	0.00265
	RN	(CK * !D * SE * !SI)	-0.00001	0.00001	0.00001
	RN	(CK * !D * SE * !SI)	-0.00002	0.00000	0.00002
	RN	(CK * !D * SE * !SI)	0.00197	0.00209	0.00238
	RN	(CK * !D * !SE * SI)	0.00224	0.00236	0.00264
	RN	(CK * !D * !SE * SI)	-0.00001	0.00001	0.00001
	RN	(CK * !D * !SE * SI)	-0.00002	0.00000	0.00002
	RN	(CK * !D * !SE * SI)	0.00197	0.00209	0.00238
	RN	(CK * !D * !SE * !SI)	0.00224	0.00236	0.00264
	RN	(CK * !D * !SE * !SI)	-0.00001	0.00001	0.00001
	RN	(CK * !D * !SE * !SI)	-0.00002	0.00000	0.00002
	RN	(CK * !D * !SE * !SI)	0.00197	0.00209	0.00238
	RN	(!CK * D * SE * SI)	0.00168	0.00180	0.00210
	RN	(!CK * D * SE * SI)	0.00001	0.00003	0.00004
	RN	(!CK * D * SE * SI)	-0.00006	-0.00003	-0.00001
	RN	(!CK * D * SE * SI)	0.00146	0.00159	0.00190
	RN	(!CK * D * SE * !SI)	0.00168	0.00179	0.00209
	RN	(!CK * D * SE * !SI)	-0.00001	0.00002	0.00005
	RN	(!CK * D * SE * !SI)	-0.00005	-0.00003	-0.00000
	RN	(!CK * D * SE * !SI)	0.00145	0.00157	0.00187
	RN	(!CK * D * !SE * SI)	0.00168	0.00180	0.00210
	RN	(!CK * D * !SE * SI)	0.00002	0.00003	0.00005
	RN	(!CK * D * !SE * SI)	-0.00005	-0.00003	0.00007
	RN	(!CK * D * !SE * SI)	0.00144	0.00159	0.00190
	RN	(!CK * D * !SE * !SI)	0.00168	0.00180	0.00210
	RN	(!CK * D * !SE * !SI)	0.00002	0.00003	0.00005
	RN	(!CK * D * !SE * !SI)	-0.00005	-0.00003	0.00007
	RN	(!CK * D * !SE * !SI)	0.00144	0.00159	0.00190
	RN	(!CK * !D * SE * SI)	0.00169	0.00180	0.00210
	RN	(!CK * !D * SE * SI)	0.00001	0.00003	0.00004
	RN	(!CK * !D * SE * SI)	-0.00005	-0.00003	-0.00001
	RN	(!CK * !D * SE * SI)	0.00147	0.00159	0.00190
	RN	(!CK * !D * SE * !SI)	0.00168	0.00179	0.00209
	RN	(!CK * !D * SE * !SI)	-0.00001	0.00002	0.00005
	RN	(!CK * !D * SE * !SI)	-0.00005	-0.00003	-0.00000
	RN	(!CK * !D * SE * !SI)	0.00145	0.00157	0.00187
	RN	(!CK * !D * !SE * SI)	0.00167	0.00179	0.00209
	RN	(!CK * !D * !SE * SI)	-0.00000	0.00002	0.00005
	RN	(!CK * !D * !SE * SI)	-0.00005	-0.00003	-0.00000
	RN	(!CK * !D * !SE * SI)	0.00145	0.00157	0.00187
	RN	(!CK * !D * !SE * !SI)	0.00167	0.00179	0.00209
	RN	(!CK * !D * !SE * !SI)	-0.00000	0.00002	0.00005
	RN	(!CK * !D * !SE * !SI)	-0.00005	-0.00003	-0.00000
	RN	(!CK * !D * !SE * !SI)	0.00145	0.00157	0.00187

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX1H7R	CK	-	0.00203	0.00214	0.00241
	CK	-	0.00000	0.00001	0.00003
	CK	-	-0.00003	-0.00002	0.00001
	CK	-	0.00241	0.00251	0.00279
	RN	(CK * D * SE * SI)	0.00223	0.00236	0.00265
	RN	(CK * D * SE * SI)	-0.00002	0.00001	0.00003
	RN	(CK * D * SE * SI)	-0.00002	0.00000	0.00002
	RN	(CK * D * SE * SI)	0.00197	0.00209	0.00239
	RN	(CK * D * SE * !SI)	0.00223	0.00236	0.00267
	RN	(CK * D * SE * !SI)	-0.00003	0.00000	0.00003
	RN	(CK * D * SE * !SI)	-0.00002	0.00000	0.00003
	RN	(CK * D * SE * !SI)	0.00198	0.00209	0.00242
	RN	(CK * D * !SE * SI)	0.00223	0.00236	0.00267
	RN	(CK * D * !SE * SI)	-0.00002	0.00001	0.00003
	RN	(CK * D * !SE * SI)	-0.00003	0.00000	0.00002
	RN	(CK * D * !SE * SI)	0.00198	0.00209	0.00242
	RN	(CK * D * !SE * !SI)	0.00223	0.00236	0.00267
	RN	(CK * D * !SE * !SI)	-0.00002	0.00000	0.00003
	RN	(CK * D * !SE * !SI)	-0.00003	0.00000	0.00002
	RN	(CK * D * !SE * !SI)	0.00198	0.00209	0.00242
	RN	(CK * !D * SE * SI)	0.00223	0.00236	0.00265
	RN	(CK * !D * SE * SI)	-0.00002	0.00001	0.00003
	RN	(CK * !D * SE * SI)	-0.00002	0.00000	0.00000
	RN	(CK * !D * SE * SI)	0.00198	0.00209	0.00239
	RN	(CK * !D * SE * !SI)	0.00223	0.00236	0.00267
	RN	(CK * !D * SE * !SI)	-0.00003	0.00000	0.00003
	RN	(CK * !D * SE * !SI)	-0.00002	0.00000	0.00003
	RN	(CK * !D * SE * !SI)	0.00198	0.00209	0.00241
	RN	(CK * !D * !SE * SI)	0.00223	0.00236	0.00267
	RN	(CK * !D * !SE * SI)	-0.00005	0.00001	0.00004
	RN	(CK * !D * !SE * SI)	-0.00002	0.00000	0.00003
	RN	(CK * !D * !SE * SI)	0.00196	0.00209	0.00242
	RN	(CK * !D * !SE * !SI)	0.00223	0.00236	0.00267
	RN	(CK * !D * !SE * !SI)	-0.00005	0.00001	0.00003
	RN	(CK * !D * !SE * !SI)	-0.00003	0.00000	0.00003
	RN	(CK * !D * !SE * !SI)	0.00197	0.00209	0.00242
	RN	(!CK * D * SE * SI)	0.00168	0.00180	0.00211
	RN	(!CK * D * SE * SI)	0.00001	0.00003	0.00005
	RN	(!CK * D * SE * SI)	-0.00017	-0.00003	0.00000
	RN	(!CK * D * SE * SI)	0.00146	0.00159	0.00199
	RN	(!CK * D * SE * !SI)	0.00167	0.00179	0.00209
	RN	(!CK * D * SE * !SI)	-0.00001	0.00002	0.00004
	RN	(!CK * D * SE * !SI)	-0.00005	-0.00003	-0.00002
	RN	(!CK * D * SE * !SI)	0.00146	0.00157	0.00188
	RN	(!CK * D * !SE * SI)	0.00169	0.00180	0.00211
	RN	(!CK * D * !SE * SI)	0.00001	0.00003	0.00004
	RN	(!CK * D * !SE * SI)	-0.00006	-0.00003	0.00000
	RN	(!CK * D * !SE * SI)	0.00146	0.00159	0.00190
	RN	(!CK * D * !SE * !SI)	0.00169	0.00180	0.00211
	RN	(!CK * D * !SE * !SI)	0.00001	0.00003	0.00004
	RN	(!CK * D * !SE * !SI)	-0.00006	-0.00003	0.00000
	RN	(!CK * D * !SE * !SI)	0.00146	0.00159	0.00190
	RN	(!CK * !D * SE * SI)	0.00170	0.00180	0.00211
	RN	(!CK * !D * SE * SI)	0.00001	0.00003	0.00004
	RN	(!CK * !D * SE * SI)	-0.00007	-0.00003	0.00000
	RN	(!CK * !D * SE * SI)	0.00148	0.00159	0.00191
	RN	(!CK * !D * SE * !SI)	0.00167	0.00179	0.00209
	RN	(!CK * !D * SE * !SI)	-0.00001	0.00002	0.00004
	RN	(!CK * !D * SE * !SI)	-0.00005	-0.00003	-0.00002
	RN	(!CK * !D * SE * !SI)	0.00146	0.00157	0.00188
	RN	(!CK * !D * !SE * SI)	-0.00493	0.00166	0.00209
	RN	(!CK * !D * !SE * SI)	-0.00000	0.00023	0.01000
	RN	(!CK * !D * !SE * SI)	-0.00003	-0.00002	0.00018
	RN	(!CK * !D * !SE * SI)	0.00145	0.00163	0.00411
	RN	(!CK * !D * !SE * !SI)	-0.00505	0.00166	0.00209
	RN	(!CK * !D * !SE * !SI)	-0.00001	0.00022	0.01001
	RN	(!CK * !D * !SE * !SI)	-0.00003	-0.00002	0.00019
	RN	(!CK * !D * !SE * !SI)	0.00145	0.00162	0.00400

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX1H7R	CK	-	0.00208	0.00215	0.00238
	CK	-	-0.00002	-0.00001	0.00000
	CK	-	0.00000	0.00002	0.00003
	CK	-	0.00235	0.00243	0.00267

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7R	**(D * RN * SE * SI)**	0.00161	0.00172	0.00212
	(D * RN * SE * SI)	0.00000	0.00001	0.00002
	(D * RN * SE * SI)	0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00228	0.00239	0.00279
	(D * RN * SE * !SI)	0.00163	0.00174	0.00213
	(D * RN * SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * SE * !SI)	0.00001	0.00001	0.00002
	(D * RN * SE * !SI)	0.00226	0.00237	0.00276
	(D * RN * !SE * SI)	0.00170	0.00181	0.00221
	(D * RN * !SE * SI)	0.00000	0.00001	0.00002
	(D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * SI)	0.00237	0.00248	0.00287
	(D * RN * !SE * !SI)	0.00170	0.00181	0.00221
	(D * RN * !SE * !SI)	0.00000	0.00001	0.00002
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * !SI)	0.00237	0.00248	0.00287
	(D * !RN * SE * SI)	0.00266	0.00278	0.00318
	(D * !RN * SE * SI)	-0.00003	-0.00002	-0.00001
	(D * !RN * SE * SI)	0.00003	0.00004	0.00005
	(D * !RN * SE * SI)	0.00325	0.00337	0.00378
	(D * !RN * SE * !SI)	0.00157	0.00168	0.00207
	(D * !RN * SE * !SI)	0.00000	0.00001	0.00002
	(D * !RN * SE * !SI)	0.00001	0.00001	0.00002
	(D * !RN * SE * !SI)	0.00222	0.00232	0.00272
	(D * !RN * !SE * SI)	0.00274	0.00286	0.00327
	(D * !RN * !SE * SI)	-0.00003	-0.00002	-0.00001
	(D * !RN * !SE * SI)	0.00003	0.00004	0.00005
	(D * !RN * !SE * SI)	0.00333	0.00345	0.00386
	(D * !RN * !SE * !SI)	0.00274	0.00286	0.00327
	(D * !RN * !SE * !SI)	-0.00003	-0.00002	-0.00001
	(D * !RN * !SE * !SI)	0.00003	0.00004	0.00005
	(D * !RN * !SE * !SI)	0.00333	0.00345	0.00386
	(!D * RN * SE * SI)	0.00161	0.00172	0.00212
	(!D * RN * SE * SI)	0.00000	0.00001	0.00002
	(!D * RN * SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * SI)	0.00228	0.00239	0.00279
	(!D * RN * SE * !SI)	0.00163	0.00174	0.00213
	(!D * RN * SE * !SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * !SI)	0.00000	0.00001	0.00002
	(!D * RN * SE * !SI)	0.00226	0.00237	0.00276
	(!D * RN * !SE * SI)	0.00171	0.00182	0.00222
	(!D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * SI)	0.00001	0.00001	0.00002
	(!D * RN * !SE * SI)	0.00234	0.00245	0.00285
	(!D * RN * !SE * !SI)	0.00171	0.00182	0.00222
	(!D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * !SI)	0.00001	0.00001	0.00002
	(!D * RN * !SE * !SI)	0.00234	0.00245	0.00285
	(!D * !RN * SE * SI)	0.00266	0.00278	0.00318
	(!D * !RN * SE * SI)	-0.00003	-0.00002	-0.00001
	(!D * !RN * SE * SI)	0.00003	0.00004	0.00005
	(!D * !RN * SE * SI)	0.00325	0.00337	0.00378
	(!D * !RN * SE * !SI)	0.00157	0.00168	0.00207
	(!D * !RN * SE * !SI)	0.00001	0.00001	0.00002
	(!D * !RN * SE * !SI)	0.00001	0.00001	0.00002
	(!D * !RN * SE * !SI)	0.00222	0.00232	0.00272
	(!D * !RN * !SE * SI)	0.00165	0.00176	0.00216
	(!D * !RN * !SE * SI)	0.00000	0.00001	0.00002
	(!D * !RN * !SE * SI)	0.00000	0.00001	0.00002
	(!D * !RN * !SE * SI)	0.00230	0.00241	0.00281
	(!D * !RN * !SE * !SI)	0.00165	0.00176	0.00216
	(!D * !RN * !SE * !SI)	0.00000	0.00001	0.00002
	(!D * !RN * !SE * !SI)	0.00000	0.00001	0.00002
	(!D * !RN * !SE * !SI)	0.00230	0.00241	0.00281

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7R	**(D * RN * SE * SI)**	0.00330	0.00343	0.00390
	(D * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(D * RN * SE * SI)	0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00267	0.00281	0.00327
	(D * RN * SE * !SI)	0.00353	0.00367	0.00418
	(D * RN * SE * !SI)	-0.00000	-0.00000	0.00000
	(D * RN * SE * !SI)	-0.00000	0.00001	0.00002
	(D * RN * SE * !SI)	0.00284	0.00299	0.00351
	(D * RN * !SE * SI)	0.00322	0.00335	0.00383
	(D * RN * !SE * SI)	-0.00001	-0.00001	-0.00000
	(D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * SI)	0.00260	0.00273	0.00320
	(D * RN * !SE * !SI)	0.00322	0.00335	0.00383
	(D * RN * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * !SI)	0.00260	0.00273	0.00320
	(D * !RN * SE * SI)	0.00245	0.00257	0.00303
	(D * !RN * SE * SI)	0.00008	0.00009	0.00009
	(D * !RN * SE * SI)	-0.00005	-0.00004	-0.00003
	(D * !RN * SE * SI)	0.00198	0.00210	0.00256
	(D * !RN * SE * !SI)	0.00223	0.00235	0.00278
	(D * !RN * SE * !SI)	-0.00002	-0.00001	-0.00000
	(D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(D * !RN * SE * !SI)	0.00159	0.00170	0.00213
	(D * !RN * !SE * SI)	0.00237	0.00249	0.00296
	(D * !RN * !SE * SI)	0.00008	0.00008	0.00009
	(D * !RN * !SE * SI)	-0.00005	-0.00004	-0.00003
	(D * !RN * !SE * SI)	0.00189	0.00202	0.00248
	(D * !RN * !SE * !SI)	0.00237	0.00249	0.00295
	(D * !RN * !SE * !SI)	0.00008	0.00009	0.00010
	(D * !RN * !SE * !SI)	-0.00005	-0.00004	-0.00003
	(D * !RN * !SE * !SI)	0.00189	0.00202	0.00248
	(!D * RN * SE * SI)	0.00330	0.00343	0.00390
	(!D * RN * SE * SI)	-0.00001	-0.00001	-0.00000
	(!D * RN * SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * SI)	0.00268	0.00281	0.00327
	(!D * RN * SE * !SI)	0.00353	0.00367	0.00418
	(!D * RN * SE * !SI)	0.00000	0.00000	0.00000
	(!D * RN * SE * !SI)	-0.00000	0.00001	0.00002
	(!D * RN * SE * !SI)	0.00284	0.00299	0.00351
	(!D * RN * !SE * SI)	0.00344	0.00359	0.00410
	(!D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * SI)	0.00001	0.00001	0.00002
	(!D * RN * !SE * SI)	0.00275	0.00291	0.00342
	(!D * RN * !SE * !SI)	0.00344	0.00359	0.00410
	(!D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(!D * RN * !SE * !SI)	0.00001	0.00001	0.00002
	(!D * RN * !SE * !SI)	0.00275	0.00291	0.00342
	(!D * !RN * SE * SI)	0.00245	0.00257	0.00303
	(!D * !RN * SE * SI)	0.00008	0.00009	0.00009
	(!D * !RN * SE * SI)	-0.00005	-0.00004	-0.00003
	(!D * !RN * SE * SI)	0.00198	0.00210	0.00256
	(!D * !RN * SE * !SI)	0.00223	0.00235	0.00278
	(!D * !RN * SE * !SI)	-0.00002	-0.00001	-0.00000
	(!D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!D * !RN * SE * !SI)	0.00159	0.00170	0.00213
	(!D * !RN * !SE * SI)	0.00214	0.00227	0.00270
	(!D * !RN * !SE * SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * !SE * SI)	-0.00002	-0.00001	-0.00000
	(!D * !RN * !SE * SI)	0.00150	0.00162	0.00205
	(!D * !RN * !SE * !SI)	0.00214	0.00227	0.00270
	(!D * !RN * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * !SE * !SI)	-0.00002	-0.00001	-0.00000
	(!D * !RN * !SE * !SI)	0.00150	0.00162	0.00205

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7R	**(CK * RN * SE * SI)**	-0.00011	-0.00010	-0.00009
	(CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * SI)	0.00029	0.00029	0.00029
	(CK * RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(CK * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * !SI)	0.00026	0.00026	0.00026
	(CK * RN * !SE * SI)	0.00032	0.00038	0.00061
	(CK * RN * !SE * SI)	0.00015	0.00016	0.00016
	(CK * RN * !SE * SI)	-0.00013	-0.00013	-0.00013
	(CK * RN * !SE * SI)	0.00135	0.00140	0.00163
	(CK * RN * !SE * !SI)	0.00032	0.00038	0.00061
	(CK * RN * !SE * !SI)	0.00015	0.00016	0.00016
	(CK * RN * !SE * !SI)	-0.00013	-0.00013	-0.00013
	(CK * RN * !SE * !SI)	0.00135	0.00140	0.00163
	(CK * !RN * SE * SI)	-0.00011	-0.00010	-0.00009
	(CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * SI)	0.00029	0.00029	0.00029
	(CK * !RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(CK * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * !SI)	0.00026	0.00026	0.00026
	(CK * !RN * !SE * SI)	0.00032	0.00038	0.00061
	(CK * !RN * !SE * SI)	0.00016	0.00016	0.00016
	(CK * !RN * !SE * SI)	-0.00014	-0.00013	-0.00013
	(CK * !RN * !SE * SI)	0.00135	0.00141	0.00163
	(CK * !RN * !SE * !SI)	0.00032	0.00038	0.00061
	(CK * !RN * !SE * !SI)	0.00016	0.00016	0.00016
	(CK * !RN * !SE * !SI)	-0.00013	-0.00013	-0.00013
	(CK * !RN * !SE * !SI)	0.00135	0.00141	0.00162
	(!CK * RN * SE * SI)	-0.00011	-0.00010	-0.00009
	(!CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * RN * SE * SI)	0.00001	0.00001	0.00002
	(!CK * RN * SE * SI)	0.00029	0.00029	0.00030
	(!CK * RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(!CK * RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(!CK * RN * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * RN * SE * !SI)	0.00026	0.00026	0.00026
	(!CK * RN * !SE * SI)	0.00145	0.00151	0.00172
	(!CK * RN * !SE * SI)	0.00013	0.00014	0.00015
	(!CK * RN * !SE * SI)	-0.00013	-0.00013	-0.00012
	(!CK * RN * !SE * SI)	0.00245	0.00251	0.00272
	(!CK * RN * !SE * !SI)	0.00145	0.00151	0.00173
	(!CK * RN * !SE * !SI)	0.00013	0.00014	0.00015
	(!CK * RN * !SE * !SI)	-0.00013	-0.00013	-0.00012
	(!CK * RN * !SE * !SI)	0.00245	0.00251	0.00272
	(!CK * !RN * SE * SI)	-0.00011	-0.00010	-0.00009
	(!CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * SI)	0.00029	0.00029	0.00031
	(!CK * !RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(!CK * !RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(!CK * !RN * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * !SI)	0.00026	0.00026	0.00026
	(!CK * !RN * !SE * SI)	0.00062	0.00067	0.00084
	(!CK * !RN * !SE * SI)	0.00024	0.00025	0.00025
	(!CK * !RN * !SE * SI)	-0.00013	-0.00013	-0.00012
	(!CK * !RN * !SE * SI)	0.00180	0.00185	0.00202
	(!CK * !RN * !SE * !SI)	0.00062	0.00067	0.00084
	(!CK * !RN * !SE * !SI)	0.00024	0.00025	0.00025
	(!CK * !RN * !SE * !SI)	-0.00013	-0.00013	-0.00012
	(!CK * !RN * !SE * !SI)	0.00180	0.00185	0.00202

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7R	**(CK * RN * SE * SI)**	0.00012	0.00012	0.00012
	(CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * SI)	-0.00029	-0.00028	-0.00028
	(CK * RN * SE * !SI)	0.00015	0.00015	0.00016
	(CK * RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * !SI)	-0.00025	-0.00024	-0.00023
	(CK * RN * !SE * SI)	0.00115	0.00121	0.00146
	(CK * RN * !SE * SI)	-0.00016	-0.00016	-0.00015
	(CK * RN * !SE * SI)	0.00013	0.00013	0.00014
	(CK * RN * !SE * SI)	0.00012	0.00019	0.00043
	(CK * RN * !SE * !SI)	0.00115	0.00121	0.00146
	(CK * RN * !SE * !SI)	-0.00016	-0.00016	-0.00015
	(CK * RN * !SE * !SI)	0.00013	0.00013	0.00014
	(CK * RN * !SE * !SI)	0.00012	0.00018	0.00043
	(CK * !RN * SE * SI)	0.00012	0.00012	0.00012
	(CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * SI)	-0.00029	-0.00028	-0.00028
	(CK * !RN * SE * !SI)	0.00015	0.00015	0.00016
	(CK * !RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * !SI)	-0.00025	-0.00024	-0.00023
	(CK * !RN * !SE * SI)	0.00115	0.00121	0.00146
	(CK * !RN * !SE * SI)	-0.00016	-0.00016	-0.00016
	(CK * !RN * !SE * SI)	0.00013	0.00013	0.00014
	(CK * !RN * !SE * SI)	0.00012	0.00018	0.00043
	(CK * !RN * !SE * !SI)	0.00115	0.00121	0.00146
	(CK * !RN * !SE * !SI)	-0.00016	-0.00016	-0.00016
	(CK * !RN * !SE * !SI)	0.00013	0.00013	0.00013
	(CK * !RN * !SE * !SI)	0.00012	0.00018	0.00043
	(!CK * RN * SE * SI)	0.00011	0.00012	0.00012
	(!CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * RN * SE * SI)	-0.00002	-0.00001	-0.00001
	(!CK * RN * SE * SI)	-0.00029	-0.00028	-0.00027
	(!CK * RN * SE * !SI)	0.00015	0.00015	0.00016
	(!CK * RN * SE * !SI)	0.00001	0.00001	0.00002
	(!CK * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CK * RN * SE * !SI)	-0.00025	-0.00024	-0.00023
	(!CK * RN * !SE * SI)	0.00218	0.00225	0.00249
	(!CK * RN * !SE * SI)	-0.00014	-0.00014	-0.00013
	(!CK * RN * !SE * SI)	0.00012	0.00013	0.00013
	(!CK * RN * !SE * SI)	0.00118	0.00124	0.00148
	(!CK * RN * !SE * !SI)	0.00218	0.00225	0.00249
	(!CK * RN * !SE * !SI)	-0.00014	-0.00014	-0.00013
	(!CK * RN * !SE * !SI)	0.00012	0.00013	0.00013
	(!CK * RN * !SE * !SI)	0.00118	0.00124	0.00148
	(!CK * !RN * SE * SI)	0.00011	0.00012	0.00012
	(!CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * SI)	-0.00029	-0.00028	-0.00027
	(!CK * !RN * SE * !SI)	0.00015	0.00015	0.00016
	(!CK * !RN * SE * !SI)	0.00001	0.00001	0.00002
	(!CK * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * !SI)	-0.00025	-0.00024	-0.00023
	(!CK * !RN * !SE * SI)	0.00229	0.00235	0.00255
	(!CK * !RN * !SE * SI)	-0.00017	-0.00016	-0.00016
	(!CK * !RN * !SE * SI)	0.00012	0.00013	0.00013
	(!CK * !RN * !SE * SI)	0.00127	0.00133	0.00154
	(!CK * !RN * !SE * !SI)	0.00229	0.00235	0.00256
	(!CK * !RN * !SE * !SI)	-0.00015	-0.00015	-0.00014
	(!CK * !RN * !SE * !SI)	0.00012	0.00013	0.00013
	(!CK * !RN * !SE * !SI)	0.00129	0.00135	0.00156

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7R	**(CK * D * SE * SI)**	0.00008	0.00023	0.00075
	(CK * D * SE * SI)	0.00003	0.00004	0.00004
	(CK * D * SE * SI)	-0.00003	-0.00002	-0.00002
	(CK * D * SE * SI)	0.00071	0.00085	0.00138
	(CK * D * SE * !SI)	0.00008	0.00023	0.00075
	(CK * D * SE * !SI)	0.00003	0.00004	0.00004
	(CK * D * SE * !SI)	-0.00003	-0.00002	-0.00002
	(CK * D * SE * !SI)	0.00071	0.00085	0.00138
	(CK * D * !SE * SI)	0.00008	0.00023	0.00075
	(CK * D * !SE * SI)	0.00003	0.00004	0.00004
	(CK * D * !SE * SI)	-0.00003	-0.00002	-0.00002
	(CK * D * !SE * SI)	0.00071	0.00085	0.00138
	(CK * D * !SE * !SI)	0.00008	0.00023	0.00075
	(CK * D * !SE * !SI)	0.00003	0.00004	0.00004
	(CK * D * !SE * !SI)	-0.00003	-0.00002	-0.00002
	(CK * D * !SE * !SI)	0.00071	0.00085	0.00138
	(CK * !D * SE * SI)	0.00008	0.00023	0.00075
	(CK * !D * SE * SI)	0.00003	0.00004	0.00004
	(CK * !D * SE * SI)	-0.00003	-0.00002	-0.00002
	(CK * !D * SE * SI)	0.00071	0.00085	0.00138
	(CK * !D * SE * !SI)	0.00008	0.00023	0.00075
	(CK * !D * SE * !SI)	0.00003	0.00004	0.00004
	(CK * !D * SE * !SI)	-0.00003	-0.00002	-0.00002
	(CK * !D * SE * !SI)	0.00071	0.00085	0.00138
	(CK * !D * !SE * SI)	0.00008	0.00023	0.00075
	(CK * !D * !SE * SI)	0.00003	0.00004	0.00004
	(CK * !D * !SE * SI)	-0.00003	-0.00002	-0.00002
	(CK * !D * !SE * SI)	0.00071	0.00085	0.00138
	(CK * !D * !SE * !SI)	0.00008	0.00023	0.00075
	(CK * !D * !SE * !SI)	0.00003	0.00004	0.00004
	(CK * !D * !SE * !SI)	-0.00003	-0.00002	-0.00002
	(CK * !D * !SE * !SI)	0.00071	0.00085	0.00138
	(!CK * D * SE * SI)	0.00090	0.00105	0.00157
	(!CK * D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * SI)	-0.00000	0.00001	0.00002
	(!CK * D * SE * SI)	0.00135	0.00150	0.00202
	(!CK * D * SE * !SI)	0.00009	0.00023	0.00076
	(!CK * D * SE * !SI)	0.00004	0.00004	0.00004
	(!CK * D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * SE * !SI)	0.00071	0.00086	0.00138
	(!CK * D * !SE * SI)	0.00091	0.00105	0.00157
	(!CK * D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * SI)	0.00001	0.00001	0.00002
	(!CK * D * !SE * SI)	0.00135	0.00150	0.00202
	(!CK * D * !SE * !SI)	0.00090	0.00105	0.00157
	(!CK * D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * !SI)	0.00001	0.00001	0.00002
	(!CK * D * !SE * !SI)	0.00135	0.00150	0.00202
	(!CK * !D * SE * SI)	0.00090	0.00105	0.00157
	(!CK * !D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * SI)	-0.00000	0.00001	0.00002
	(!CK * !D * SE * SI)	0.00135	0.00150	0.00202
	(!CK * !D * SE * !SI)	0.00009	0.00023	0.00076
	(!CK * !D * SE * !SI)	0.00004	0.00004	0.00004
	(!CK * !D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * SE * !SI)	0.00071	0.00086	0.00138
	(!CK * !D * !SE * SI)	0.00009	0.00023	0.00076
	(!CK * !D * !SE * SI)	0.00004	0.00004	0.00004
	(!CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SE * SI)	0.00071	0.00086	0.00139
	(!CK * !D * !SE * !SI)	0.00009	0.00023	0.00076
	(!CK * !D * !SE * !SI)	0.00004	0.00004	0.00004
	(!CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SE * !SI)	0.00071	0.00086	0.00139

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7R	**(CK * D * SE * SI)**	0.00074	0.00090	0.00146
	(CK * D * SE * SI)	-0.00004	-0.00004	-0.00003
	(CK * D * SE * SI)	0.00002	0.00003	0.00003
	(CK * D * SE * SI)	0.00011	0.00027	0.00082
	(CK * D * SE * !SI)	0.00074	0.00090	0.00146
	(CK * D * SE * !SI)	-0.00004	-0.00004	-0.00003
	(CK * D * SE * !SI)	0.00002	0.00003	0.00003
	(CK * D * SE * !SI)	0.00011	0.00027	0.00082
	(CK * D * !SE * SI)	0.00074	0.00090	0.00146
	(CK * D * !SE * SI)	-0.00004	-0.00004	-0.00003
	(CK * D * !SE * SI)	0.00002	0.00003	0.00003
	(CK * D * !SE * SI)	0.00011	0.00027	0.00082
	(CK * D * !SE * !SI)	0.00074	0.00090	0.00146
	(CK * D * !SE * !SI)	-0.00004	-0.00004	-0.00003
	(CK * D * !SE * !SI)	0.00002	0.00003	0.00003
	(CK * D * !SE * !SI)	0.00011	0.00027	0.00082
	(CK * !D * SE * SI)	0.00074	0.00090	0.00146
	(CK * !D * SE * SI)	-0.00004	-0.00004	-0.00003
	(CK * !D * SE * SI)	0.00002	0.00003	0.00003
	(CK * !D * SE * SI)	0.00011	0.00027	0.00082
	(CK * !D * SE * !SI)	0.00074	0.00090	0.00146
	(CK * !D * SE * !SI)	-0.00004	-0.00004	-0.00003
	(CK * !D * SE * !SI)	0.00002	0.00003	0.00003
	(CK * !D * SE * !SI)	0.00011	0.00027	0.00082
	(CK * !D * !SE * SI)	0.00074	0.00090	0.00146
	(CK * !D * !SE * SI)	-0.00004	-0.00004	-0.00003
	(CK * !D * !SE * SI)	0.00002	0.00003	0.00003
	(CK * !D * !SE * SI)	0.00011	0.00027	0.00082
	(CK * !D * !SE * !SI)	0.00074	0.00090	0.00146
	(CK * !D * !SE * !SI)	-0.00004	-0.00004	-0.00003
	(CK * !D * !SE * !SI)	0.00002	0.00003	0.00003
	(CK * !D * !SE * !SI)	0.00011	0.00027	0.00082
	(!CK * D * SE * SI)	0.00075	0.00091	0.00146
	(!CK * D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * SI)	0.00003	0.00003	0.00003
	(!CK * D * SE * SI)	0.00012	0.00028	0.00083
	(!CK * D * SE * !SI)	0.00073	0.00089	0.00145
	(!CK * D * SE * !SI)	-0.00004	-0.00004	-0.00004
	(!CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * !SI)	0.00010	0.00026	0.00082
	(!CK * D * !SE * SI)	0.00075	0.00091	0.00146
	(!CK * D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * SI)	0.00002	0.00003	0.00003
	(!CK * D * !SE * SI)	0.00012	0.00028	0.00083
	(!CK * D * !SE * !SI)	0.00075	0.00091	0.00146
	(!CK * D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * !SE * !SI)	0.00002	0.00003	0.00003
	(!CK * D * !SE * !SI)	0.00012	0.00028	0.00083
	(!CK * !D * SE * SI)	0.00075	0.00091	0.00146
	(!CK * !D * SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * SI)	0.00003	0.00003	0.00003
	(!CK * !D * SE * SI)	0.00012	0.00028	0.00083
	(!CK * !D * SE * !SI)	0.00073	0.00089	0.00145
	(!CK * !D * SE * !SI)	-0.00004	-0.00004	-0.00004
	(!CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * !SI)	0.00010	0.00026	0.00082
	(!CK * !D * !SE * SI)	0.00073	0.00089	0.00145
	(!CK * !D * !SE * SI)	-0.00004	-0.00004	-0.00004
	(!CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * SI)	0.00010	0.00026	0.00082
	(!CK * !D * !SE * !SI)	0.00073	0.00089	0.00145
	(!CK * !D * !SE * !SI)	-0.00004	-0.00004	-0.00004
	(!CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * !SI)	0.00010	0.00026	0.00082

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7R	**(CK * D * RN * SI)**	-0.00013	0.00000	0.00049
	(CK * D * RN * SI)	0.00003	0.00003	0.00003
	(CK * D * RN * SI)	-0.00003	-0.00002	-0.00002
	(CK * D * RN * SI)	0.00103	0.00117	0.00165
	(CK * D * RN * !SI)	0.00111	0.00124	0.00169
	(CK * D * RN * !SI)	-0.00010	-0.00010	-0.00009
	(CK * D * RN * !SI)	0.00007	0.00008	0.00008
	(CK * D * RN * !SI)	0.00179	0.00193	0.00238
	(CK * D * !RN * SI)	-0.00013	0.00000	0.00049
	(CK * D * !RN * SI)	0.00003	0.00003	0.00003
	(CK * D * !RN * SI)	-0.00003	-0.00002	-0.00002
	(CK * D * !RN * SI)	0.00103	0.00117	0.00166
	(CK * D * !RN * !SI)	0.00111	0.00124	0.00169
	(CK * D * !RN * !SI)	-0.00010	-0.00009	-0.00008
	(CK * D * !RN * !SI)	0.00006	0.00008	0.00009
	(CK * D * !RN * !SI)	0.00179	0.00193	0.00238
	(CK * !D * RN * SI)	-0.00009	0.00017	0.00110
	(CK * !D * RN * SI)	0.00015	0.00016	0.00016
	(CK * !D * RN * SI)	-0.00013	-0.00013	-0.00012
	(CK * !D * RN * SI)	0.00156	0.00181	0.00274
	(CK * !D * RN * !SI)	-0.00005	0.00009	0.00058
	(CK * !D * RN * !SI)	0.00002	0.00003	0.00003
	(CK * !D * RN * !SI)	-0.00002	-0.00002	-0.00001
	(CK * !D * RN * !SI)	0.00111	0.00124	0.00174
	(CK * !D * !RN * SI)	-0.00009	0.00017	0.00110
	(CK * !D * !RN * SI)	0.00015	0.00015	0.00016
	(CK * !D * !RN * SI)	-0.00013	-0.00012	-0.00012
	(CK * !D * !RN * SI)	0.00156	0.00181	0.00274
	(CK * !D * !RN * !SI)	-0.00005	0.00009	0.00058
	(CK * !D * !RN * !SI)	0.00002	0.00003	0.00003
	(CK * !D * !RN * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !RN * !SI)	0.00111	0.00124	0.00174
	(!CK * D * RN * SI)	-0.00005	0.00009	0.00057
	(!CK * D * RN * SI)	0.00003	0.00003	0.00003
	(!CK * D * RN * SI)	-0.00002	-0.00002	-0.00000
	(!CK * D * RN * SI)	0.00111	0.00125	0.00174
	(!CK * D * RN * !SI)	0.00222	0.00235	0.00281
	(!CK * D * RN * !SI)	-0.00008	-0.00007	-0.00006
	(!CK * D * RN * !SI)	0.00007	0.00008	0.00010
	(!CK * D * RN * !SI)	0.00293	0.00305	0.00352
	(!CK * D * !RN * SI)	-0.00005	0.00009	0.00057
	(!CK * D * !RN * SI)	0.00003	0.00003	0.00004
	(!CK * D * !RN * SI)	-0.00002	-0.00002	-0.00000
	(!CK * D * !RN * SI)	0.00112	0.00125	0.00174
	(!CK * D * !RN * !SI)	0.00235	0.00248	0.00292
	(!CK * D * !RN * !SI)	-0.00011	-0.00010	-0.00010
	(!CK * D * !RN * !SI)	0.00009	0.00010	0.00011
	(!CK * D * !RN * !SI)	0.00297	0.00310	0.00354
	(!CK * !D * RN * SI)	0.00113	0.00137	0.00225
	(!CK * !D * RN * SI)	0.00013	0.00014	0.00014
	(!CK * !D * RN * SI)	-0.00013	-0.00012	-0.00012
	(!CK * !D * RN * SI)	0.00276	0.00300	0.00387
	(!CK * !D * RN * !SI)	0.00003	0.00017	0.00067
	(!CK * !D * RN * !SI)	0.00003	0.00003	0.00004
	(!CK * !D * RN * !SI)	-0.00002	-0.00002	-0.00001
	(!CK * !D * RN * !SI)	0.00119	0.00133	0.00183
	(!CK * !D * !RN * SI)	0.00030	0.00052	0.00134
	(!CK * !D * !RN * SI)	0.00024	0.00024	0.00024
	(!CK * !D * !RN * SI)	-0.00018	-0.00016	-0.00016
	(!CK * !D * !RN * SI)	0.00211	0.00232	0.00314
	(!CK * !D * !RN * !SI)	0.00003	0.00017	0.00067
	(!CK * !D * !RN * !SI)	0.00002	0.00003	0.00003
	(!CK * !D * !RN * !SI)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !RN * !SI)	0.00119	0.00133	0.00183

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7R	**(CK * D * RN * SI)**	0.00111	0.00127	0.00180
	(CK * D * RN * SI)	-0.00003	-0.00003	-0.00003
	(CK * D * RN * SI)	0.00002	0.00002	0.00003
	(CK * D * RN * SI)	-0.00005	0.00010	0.00064
	(CK * D * RN * !SI)	0.00158	0.00173	0.00226
	(CK * D * RN * !SI)	0.00009	0.00010	0.00011
	(CK * D * RN * !SI)	-0.00008	-0.00008	-0.00007
	(CK * D * RN * !SI)	0.00089	0.00104	0.00158
	(CK * D * !RN * SI)	0.00111	0.00127	0.00180
	(CK * D * !RN * SI)	-0.00003	-0.00003	-0.00003
	(CK * D * !RN * SI)	0.00002	0.00002	0.00003
	(CK * D * !RN * SI)	-0.00005	0.00010	0.00064
	(CK * D * !RN * !SI)	0.00158	0.00173	0.00226
	(CK * D * !RN * !SI)	0.00008	0.00009	0.00010
	(CK * D * !RN * !SI)	-0.00009	-0.00008	-0.00006
	(CK * D * !RN * !SI)	0.00089	0.00104	0.00158
	(CK * !D * RN * SI)	0.00173	0.00202	0.00301
	(CK * !D * RN * SI)	-0.00016	-0.00015	-0.00015
	(CK * !D * RN * SI)	0.00012	0.00013	0.00013
	(CK * !D * RN * SI)	0.00010	0.00038	0.00137
	(CK * !D * RN * !SI)	0.00102	0.00118	0.00171
	(CK * !D * RN * !SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * RN * !SI)	0.00002	0.00002	0.00002
	(CK * !D * RN * !SI)	-0.00014	0.00001	0.00055
	(CK * !D * !RN * SI)	0.00173	0.00202	0.00301
	(CK * !D * !RN * SI)	-0.00016	-0.00015	-0.00015
	(CK * !D * !RN * SI)	0.00012	0.00013	0.00013
	(CK * !D * !RN * SI)	0.00010	0.00038	0.00137
	(CK * !D * !RN * !SI)	0.00102	0.00118	0.00171
	(CK * !D * !RN * !SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * !RN * !SI)	0.00002	0.00002	0.00002
	(CK * !D * !RN * !SI)	-0.00014	0.00001	0.00055
	(!CK * D * RN * SI)	0.00103	0.00118	0.00172
	(!CK * D * RN * SI)	-0.00003	-0.00003	-0.00003
	(!CK * D * RN * SI)	0.00001	0.00002	0.00003
	(!CK * D * RN * SI)	-0.00013	0.00002	0.00056
	(!CK * D * RN * !SI)	0.00260	0.00276	0.00331
	(!CK * D * RN * !SI)	0.00006	0.00008	0.00009
	(!CK * D * RN * !SI)	-0.00007	-0.00007	-0.00006
	(!CK * D * RN * !SI)	0.00188	0.00205	0.00260
	(!CK * D * !RN * SI)	0.00103	0.00118	0.00172
	(!CK * D * !RN * SI)	-0.00003	-0.00003	-0.00003
	(!CK * D * !RN * SI)	0.00002	0.00002	0.00003
	(!CK * D * !RN * SI)	-0.00013	0.00002	0.00055
	(!CK * D * !RN * !SI)	0.00177	0.00193	0.00247
	(!CK * D * !RN * !SI)	0.00017	0.00018	0.00021
	(!CK * D * !RN * !SI)	-0.00011	-0.00010	-0.00009
	(!CK * D * !RN * !SI)	0.00124	0.00140	0.00194
	(!CK * !D * RN * SI)	0.00270	0.00296	0.00391
	(!CK * !D * RN * SI)	-0.00014	-0.00014	-0.00013
	(!CK * !D * RN * SI)	0.00012	0.00012	0.00013
	(!CK * !D * RN * SI)	0.00108	0.00134	0.00230
	(!CK * !D * RN * !SI)	0.00094	0.00109	0.00162
	(!CK * !D * RN * !SI)	-0.00004	-0.00003	-0.00003
	(!CK * !D * RN * !SI)	0.00002	0.00002	0.00003
	(!CK * !D * RN * !SI)	-0.00022	-0.00007	0.00046
	(!CK * !D * !RN * SI)	0.00287	0.00312	0.00400
	(!CK * !D * !RN * SI)	-0.00018	-0.00016	-0.00015
	(!CK * !D * !RN * SI)	0.00016	0.00016	0.00018
	(!CK * !D * !RN * SI)	0.00117	0.00142	0.00232
	(!CK * !D * !RN * !SI)	0.00094	0.00109	0.00162
	(!CK * !D * !RN * !SI)	-0.00003	-0.00003	-0.00002
	(!CK * !D * !RN * !SI)	0.00002	0.00002	0.00003
	(!CK * !D * !RN * !SI)	-0.00022	-0.00007	0.00046

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7R	**(CK * D * RN * SE)**	0.00006	0.00011	0.00031
	(CK * D * RN * SE)	0.00015	0.00015	0.00016
	(CK * D * RN * SE)	-0.00013	-0.00013	-0.00012
	(CK * D * RN * SE)	0.00102	0.00106	0.00127
	(CK * D * RN * !SE)	-0.00016	-0.00015	-0.00014
	(CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * RN * !SE)	0.00019	0.00019	0.00020
	(CK * D * !RN * SE)	0.00006	0.00011	0.00031
	(CK * D * !RN * SE)	0.00015	0.00015	0.00015
	(CK * D * !RN * SE)	-0.00013	-0.00013	-0.00012
	(CK * D * !RN * SE)	0.00102	0.00106	0.00127
	(CK * D * !RN * !SE)	-0.00016	-0.00015	-0.00014
	(CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * !RN * !SE)	0.00019	0.00019	0.00020
	(CK * !D * RN * SE)	0.00006	0.00011	0.00031
	(CK * !D * RN * SE)	0.00015	0.00015	0.00015
	(CK * !D * RN * SE)	-0.00013	-0.00013	-0.00012
	(CK * !D * RN * SE)	0.00102	0.00107	0.00127
	(CK * !D * RN * !SE)	-0.00016	-0.00016	-0.00015
	(CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * RN * !SE)	0.00019	0.00019	0.00019
	(CK * !D * !RN * SE)	0.00006	0.00011	0.00031
	(CK * !D * !RN * SE)	0.00015	0.00015	0.00015
	(CK * !D * !RN * SE)	-0.00013	-0.00013	-0.00013
	(CK * !D * !RN * SE)	0.00102	0.00107	0.00127
	(CK * !D * !RN * !SE)	-0.00016	-0.00016	-0.00015
	(CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * !RN * !SE)	0.00019	0.00019	0.00019
	(!CK * D * RN * SE)	0.00119	0.00124	0.00144
	(!CK * D * RN * SE)	0.00013	0.00014	0.00014
	(!CK * D * RN * SE)	-0.00012	-0.00012	-0.00011
	(!CK * D * RN * SE)	0.00213	0.00217	0.00237
	(!CK * D * RN * !SE)	-0.00016	-0.00015	-0.00014
	(!CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * RN * !SE)	0.00019	0.00019	0.00019
	(!CK * D * !RN * SE)	0.00035	0.00039	0.00055
	(!CK * D * !RN * SE)	0.00024	0.00024	0.00024
	(!CK * D * !RN * SE)	-0.00013	-0.00012	-0.00011
	(!CK * D * !RN * SE)	0.00147	0.00151	0.00166
	(!CK * D * !RN * !SE)	-0.00016	-0.00015	-0.00014
	(!CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * !RN * !SE)	0.00001	0.00001	0.00002
	(!CK * D * !RN * !SE)	0.00019	0.00019	0.00019
	(!CK * !D * RN * SE)	0.00119	0.00124	0.00144
	(!CK * !D * RN * SE)	0.00013	0.00013	0.00014
	(!CK * !D * RN * SE)	-0.00013	-0.00012	-0.00012
	(!CK * !D * RN * SE)	0.00213	0.00218	0.00237
	(!CK * !D * RN * !SE)	-0.00016	-0.00015	-0.00015
	(!CK * !D * RN * !SE)	-0.00002	-0.00001	-0.00001
	(!CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * RN * !SE)	0.00019	0.00019	0.00019
	(!CK * !D * !RN * SE)	0.00036	0.00040	0.00055
	(!CK * !D * !RN * SE)	0.00024	0.00024	0.00024
	(!CK * !D * !RN * SE)	-0.00012	-0.00012	-0.00011
	(!CK * !D * !RN * SE)	0.00147	0.00151	0.00166
	(!CK * !D * !RN * !SE)	-0.00016	-0.00016	-0.00015
	(!CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * !RN * !SE)	0.00019	0.00019	0.00019

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX1H7R	**(CK * D * RN * SE)**	0.00138	0.00143	0.00164
	(CK * D * RN * SE)	-0.00016	-0.00015	-0.00015
	(CK * D * RN * SE)	0.00012	0.00013	0.00013
	(CK * D * RN * SE)	0.00042	0.00047	0.00069
	(CK * D * RN * !SE)	0.00017	0.00017	0.00017
	(CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * RN * !SE)	-0.00019	-0.00018	-0.00017
	(CK * D * !RN * SE)	0.00138	0.00143	0.00164
	(CK * D * !RN * SE)	-0.00015	-0.00015	-0.00015
	(CK * D * !RN * SE)	0.00012	0.00013	0.00013
	(CK * D * !RN * SE)	0.00042	0.00047	0.00069
	(CK * D * !RN * !SE)	0.00017	0.00017	0.00017
	(CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * !RN * !SE)	-0.00019	-0.00018	-0.00017
	(CK * !D * RN * SE)	0.00137	0.00143	0.00164
	(CK * !D * RN * SE)	-0.00015	-0.00015	-0.00015
	(CK * !D * RN * SE)	0.00012	0.00013	0.00013
	(CK * !D * RN * SE)	0.00042	0.00047	0.00069
	(CK * !D * RN * !SE)	0.00016	0.00017	0.00017
	(CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * RN * !SE)	-0.00019	-0.00018	-0.00017
	(CK * !D * !RN * SE)	0.00137	0.00143	0.00164
	(CK * !D * !RN * SE)	-0.00015	-0.00015	-0.00015
	(CK * !D * !RN * SE)	0.00013	0.00013	0.00013
	(CK * !D * !RN * SE)	0.00042	0.00047	0.00069
	(CK * !D * !RN * !SE)	0.00016	0.00017	0.00017
	(CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * !RN * !SE)	-0.00019	-0.00018	-0.00017
	(!CK * D * RN * SE)	0.00241	0.00247	0.00269
	(!CK * D * RN * SE)	-0.00014	-0.00014	-0.00013
	(!CK * D * RN * SE)	0.00012	0.00012	0.00012
	(!CK * D * RN * SE)	0.00148	0.00153	0.00176
	(!CK * D * RN * !SE)	0.00016	0.00017	0.00017
	(!CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * RN * !SE)	-0.00019	-0.00018	-0.00017
	(!CK * D * !RN * SE)	0.00252	0.00257	0.00275
	(!CK * D * !RN * SE)	-0.00016	-0.00016	-0.00015
	(!CK * D * !RN * SE)	0.00011	0.00012	0.00013
	(!CK * D * !RN * SE)	0.00156	0.00162	0.00180
	(!CK * D * !RN * !SE)	0.00016	0.00016	0.00017
	(!CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * !RN * !SE)	-0.00019	-0.00018	-0.00017
	(!CK * !D * RN * SE)	0.00241	0.00246	0.00268
	(!CK * !D * RN * SE)	-0.00014	-0.00013	-0.00013
	(!CK * !D * RN * SE)	0.00012	0.00012	0.00013
	(!CK * !D * RN * SE)	0.00147	0.00153	0.00175
	(!CK * !D * RN * !SE)	0.00016	0.00017	0.00017
	(!CK * !D * RN * !SE)	0.00001	0.00001	0.00002
	(!CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * RN * !SE)	-0.00019	-0.00018	-0.00016
	(!CK * !D * !RN * SE)	0.00252	0.00257	0.00275
	(!CK * !D * !RN * SE)	-0.00015	-0.00014	-0.00014
	(!CK * !D * !RN * SE)	0.00011	0.00012	0.00012
	(!CK * !D * !RN * SE)	0.00159	0.00164	0.00182
	(!CK * !D * !RN * !SE)	0.00016	0.00017	0.00017
	(!CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !RN * !SE)	-0.00019	-0.00018	-0.00017

SDFFRX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q = !RN ?0 : falling (CKN) ?(SE&SI| !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	RN	SE	SI	Q	QN
R	0	1	0	x	0	1
R	x	1	1	0	0	1
R	x	1	1	1	1	0
R	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFRX2H7R	10.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	RN	SE	SI	Q	QN
SDFFRX2H7R	0.00099	0.00075	0.00204	0.00194	0.00070	0.08089	0.08116

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRX2H7R	0.00000	1.33743	1.85500

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX2H7R	CK->Q (RR)	-	0.09159	0.24843	0.60768

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX2H7R	CK->Q (RF)	-	0.07034	0.19608	0.46934
	RN->Q (FF)	(CK * D * SE * SI)	0.03888	0.15834	0.43730
	RN->Q (FF)	(CK * D * SE * !SI)	0.03888	0.15834	0.43729
	RN->Q (FF)	(CK * D * !SE * SI)	0.03888	0.15834	0.43730
	RN->Q (FF)	(CK * D * !SE * !SI)	0.03888	0.15834	0.43730
	RN->Q (FF)	(CK * !D * SE * SI)	0.03888	0.15834	0.43730
	RN->Q (FF)	(CK * !D * SE * !SI)	0.03888	0.15834	0.43729
	RN->Q (FF)	(CK * !D * !SE * SI)	0.03888	0.15834	0.43729
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.03888	0.15834	0.43729
	RN->Q (FF)	(!CK * D * SE * SI)	0.05261	0.18614	0.49317
	RN->Q (FF)	(!CK * D * SE * !SI)	0.05254	0.18596	0.49299
	RN->Q (FF)	(!CK * D * !SE * SI)	0.05261	0.18614	0.49317
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.05261	0.18614	0.49317
	RN->Q (FF)	(!CK * !D * SE * SI)	0.05261	0.18614	0.49317
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.05253	0.18596	0.49299
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.05254	0.18596	0.49299
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.05254	0.18596	0.49299

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX2H7R	CK->QN (RR)	-	0.10212	0.24988	0.60763
	RN->QN (FR)	(CK * D * SE * SI)	0.06424	0.21408	0.57587
	RN->QN (FR)	(CK * D * SE * !SI)	0.06424	0.21408	0.57582
	RN->QN (FR)	(CK * D * !SE * SI)	0.06424	0.21407	0.57557
	RN->QN (FR)	(CK * D * !SE * !SI)	0.06424	0.21407	0.57557
	RN->QN (FR)	(CK * !D * SE * SI)	0.06424	0.21408	0.57587
	RN->QN (FR)	(CK * !D * SE * !SI)	0.06424	0.21408	0.57582
	RN->QN (FR)	(CK * !D * !SE * SI)	0.06424	0.21407	0.57562
	RN->QN (FR)	(CK * !D * !SE * !SI)	0.06424	0.21407	0.57571
	RN->QN (FR)	(!CK * D * SE * SI)	0.08338	0.24201	0.62985
	RN->QN (FR)	(!CK * D * SE * !SI)	0.08331	0.24184	0.62997
	RN->QN (FR)	(!CK * D * !SE * SI)	0.08338	0.24201	0.62985
	RN->QN (FR)	(!CK * D * !SE * !SI)	0.08338	0.24201	0.62985
	RN->QN (FR)	(!CK * !D * SE * SI)	0.08338	0.24201	0.62985
	RN->QN (FR)	(!CK * !D * SE * !SI)	0.08330	0.24184	0.62997
	RN->QN (FR)	(!CK * !D * !SE * SI)	0.08331	0.24185	0.62997
	RN->QN (FR)	(!CK * !D * !SE * !SI)	0.08331	0.24185	0.62997

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX2H7R	CK->QN (RF)	-	0.12367	0.23988	0.50415

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7R	**hold**	**CK (R)**	-0.07934	-0.01481	0.04606
	setup	**CK (R)**	-0.02428	0.05059	0.13025

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7R	**hold**	**CK (R)**	-0.16485	-0.07909	-0.03102
	setup	**CK (R)**	0.05067	0.10137	0.19366

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRX2H7R	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7R	**hold**	**CK (R)**	0.02925	0.06936	0.13111
	setup	**CK (R)**	-0.10298	0.01720	0.28637

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7R	hold	CK (R)	-0.05765	-0.00707	0.04442
	setup	CK (R)	0.06898	0.10033	0.14838

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7R	hold	CK (R)	-0.11042	-0.03082	0.03901
	setup	CK (R)	0.03539	0.08537	0.16744

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7R	hold	CK (R)	-0.08734	-0.01926	0.04205
	setup	CK (R)	-0.02125	0.05561	0.14265

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX2H7R	hold	CK (R)	-0.17090	-0.08276	-0.03256
	setup	CK (R)	0.05455	0.10587	0.20136

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX2H7R	CK	-	0.00216	0.00227	0.00257
	CK	-	0.00000	0.00003	0.00005
	CK	-	-0.00002	-0.00001	0.00000
	CK	-	0.00261	0.00273	0.00305

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX2H7R	CK	-	0.00219	0.00230	0.00256
	CK	-	-0.00004	-0.00003	-0.00000
	CK	-	0.00000	0.00001	0.00003
	CK	-	0.00241	0.00253	0.00280
	RN	(CK * D * SE * SI)	0.00234	0.00246	0.00273
	RN	(CK * D * SE * SI)	-0.00005	-0.00004	-0.00003
	RN	(CK * D * SE * SI)	-0.00005	-0.00002	0.00001
	RN	(CK * D * SE * SI)	0.00160	0.00172	0.00199
	RN	(CK * D * SE * !SI)	0.00234	0.00246	0.00273
	RN	(CK * D * SE * !SI)	-0.00004	-0.00004	-0.00004
	RN	(CK * D * SE * !SI)	-0.00005	-0.00002	0.00000
	RN	(CK * D * SE * !SI)	0.00162	0.00172	0.00199
	RN	(CK * D * !SE * SI)	0.00235	0.00246	0.00273
	RN	(CK * D * !SE * SI)	-0.00004	-0.00004	-0.00004
	RN	(CK * D * !SE * SI)	-0.00006	-0.00002	0.00001
	RN	(CK * D * !SE * SI)	0.00160	0.00172	0.00199
	RN	(CK * D * !SE * !SI)	0.00234	0.00246	0.00273
	RN	(CK * D * !SE * !SI)	-0.00004	-0.00004	-0.00004
	RN	(CK * D * !SE * !SI)	-0.00006	-0.00002	0.00001
	RN	(CK * D * !SE * !SI)	0.00160	0.00172	0.00199
	RN	(CK * !D * SE * SI)	0.00234	0.00246	0.00273
	RN	(CK * !D * SE * SI)	-0.00005	-0.00004	-0.00004
	RN	(CK * !D * SE * SI)	-0.00005	-0.00002	0.00001
	RN	(CK * !D * SE * SI)	0.00160	0.00172	0.00199
	RN	(CK * !D * SE * !SI)	0.00234	0.00246	0.00273
	RN	(CK * !D * SE * !SI)	-0.00004	-0.00004	-0.00004
	RN	(CK * !D * SE * !SI)	-0.00005	-0.00002	0.00000
	RN	(CK * !D * SE * !SI)	0.00162	0.00172	0.00199
	RN	(CK * !D * !SE * SI)	0.00235	0.00246	0.00273
	RN	(CK * !D * !SE * SI)	-0.00004	-0.00004	-0.00002
	RN	(CK * !D * !SE * SI)	-0.00005	-0.00002	-0.00001
	RN	(CK * !D * !SE * SI)	0.00161	0.00172	0.00199
	RN	(CK * !D * !SE * !SI)	0.00235	0.00246	0.00273
	RN	(CK * !D * !SE * !SI)	-0.00004	-0.00004	-0.00002
	RN	(CK * !D * !SE * !SI)	-0.00005	-0.00002	0.00000
	RN	(CK * !D * !SE * !SI)	0.00161	0.00172	0.00199
	RN	(!CK * D * SE * SI)	0.00211	0.00227	0.00276
	RN	(!CK * D * SE * SI)	-0.00014	-0.00011	-0.00008
	RN	(!CK * D * SE * SI)	0.00003	0.00006	0.00008
	RN	(!CK * D * SE * SI)	0.00120	0.00137	0.00187
	RN	(!CK * D * SE * !SI)	0.00175	0.00183	0.00205
	RN	(!CK * D * SE * !SI)	-0.00007	-0.00004	-0.00004
	RN	(!CK * D * SE * !SI)	-0.00001	0.00002	0.00004
	RN	(!CK * D * SE * !SI)	0.00108	0.00118	0.00140
	RN	(!CK * D * !SE * SI)	0.00211	0.00227	0.00276
	RN	(!CK * D * !SE * SI)	-0.00012	-0.00011	-0.00008
	RN	(!CK * D * !SE * SI)	0.00003	0.00006	0.00008
	RN	(!CK * D * !SE * SI)	0.00120	0.00137	0.00187
	RN	(!CK * D * !SE * !SI)	0.00211	0.00227	0.00276
	RN	(!CK * D * !SE * !SI)	-0.00012	-0.00011	-0.00008
	RN	(!CK * D * !SE * !SI)	0.00003	0.00006	0.00008
	RN	(!CK * D * !SE * !SI)	0.00120	0.00137	0.00187
	RN	(!CK * !D * SE * SI)	0.00211	0.00227	0.00276
	RN	(!CK * !D * SE * SI)	-0.00012	-0.00011	-0.00008
	RN	(!CK * !D * SE * SI)	0.00003	0.00006	0.00008
	RN	(!CK * !D * SE * SI)	0.00120	0.00137	0.00187
	RN	(!CK * !D * SE * !SI)	0.00175	0.00183	0.00205
	RN	(!CK * !D * SE * !SI)	-0.00007	-0.00004	-0.00004
	RN	(!CK * !D * SE * !SI)	-0.00001	0.00002	0.00004
	RN	(!CK * !D * SE * !SI)	0.00108	0.00117	0.00140
	RN	(!CK * !D * !SE * SI)	0.00175	0.00183	0.00205
	RN	(!CK * !D * !SE * SI)	-0.00006	-0.00004	-0.00001
	RN	(!CK * !D * !SE * SI)	-0.00001	0.00002	0.00004
	RN	(!CK * !D * !SE * SI)	0.00108	0.00117	0.00140
	RN	(!CK * !D * !SE * !SI)	0.00175	0.00183	0.00205
	RN	(!CK * !D * !SE * !SI)	-0.00007	-0.00004	-0.00004
	RN	(!CK * !D * !SE * !SI)	-0.00001	0.00002	0.00004
	RN	(!CK * !D * !SE * !SI)	0.00108	0.00117	0.00140

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX2H7R	CK	-	0.00219	0.00230	0.00257
	CK	-	-0.00004	-0.00003	-0.00001
	CK	-	0.00001	0.00001	0.00004
	CK	-	0.00240	0.00253	0.00282
	RN	(CK * D * SE * SI)	0.00235	0.00246	0.00273
	RN	(CK * D * SE * SI)	-0.00006	-0.00004	-0.00003
	RN	(CK * D * SE * SI)	-0.00005	-0.00002	0.00001
	RN	(CK * D * SE * SI)	0.00162	0.00172	0.00199
	RN	(CK * D * SE * !SI)	0.00235	0.00246	0.00273
	RN	(CK * D * SE * !SI)	-0.00004	-0.00004	-0.00003
	RN	(CK * D * SE * !SI)	-0.00002	-0.00002	0.00001
	RN	(CK * D * SE * !SI)	0.00161	0.00172	0.00199
	RN	(CK * D * !SE * SI)	0.00235	0.00246	0.00273
	RN	(CK * D * !SE * SI)	-0.00004	-0.00004	-0.00003
	RN	(CK * D * !SE * SI)	-0.00005	-0.00002	0.00001
	RN	(CK * D * !SE * SI)	0.00162	0.00172	0.00199
	RN	(CK * D * !SE * !SI)	0.00235	0.00246	0.00273
	RN	(CK * D * !SE * !SI)	-0.00008	-0.00004	-0.00004
	RN	(CK * D * !SE * !SI)	-0.00006	-0.00002	-0.00001
	RN	(CK * D * !SE * !SI)	0.00162	0.00172	0.00199
	RN	(CK * !D * SE * SI)	0.00235	0.00246	0.00273
	RN	(CK * !D * SE * SI)	-0.00006	-0.00004	-0.00003
	RN	(CK * !D * SE * SI)	-0.00005	-0.00002	0.00001
	RN	(CK * !D * SE * SI)	0.00162	0.00172	0.00199
	RN	(CK * !D * SE * !SI)	0.00235	0.00246	0.00273
	RN	(CK * !D * SE * !SI)	-0.00005	-0.00004	-0.00003
	RN	(CK * !D * SE * !SI)	-0.00005	-0.00002	0.00001
	RN	(CK * !D * SE * !SI)	0.00161	0.00172	0.00199
	RN	(CK * !D * !SE * SI)	0.00235	0.00246	0.00273
	RN	(CK * !D * !SE * SI)	-0.00004	-0.00004	-0.00001
	RN	(CK * !D * !SE * SI)	-0.00002	-0.00001	0.00002
	RN	(CK * !D * !SE * SI)	0.00161	0.00172	0.00198
	RN	(CK * !D * !SE * !SI)	0.00235	0.00246	0.00273
	RN	(CK * !D * !SE * !SI)	-0.00004	-0.00004	-0.00001
	RN	(CK * !D * !SE * !SI)	-0.00002	-0.00002	0.00002
	RN	(CK * !D * !SE * !SI)	0.00161	0.00172	0.00198
	RN	(!CK * D * SE * SI)	0.00211	0.00227	0.00276
	RN	(!CK * D * SE * SI)	-0.00012	-0.00011	-0.00010
	RN	(!CK * D * SE * SI)	0.00005	0.00006	0.00006
	RN	(!CK * D * SE * SI)	0.00122	0.00137	0.00187
	RN	(!CK * D * SE * !SI)	0.00175	0.00183	0.00205
	RN	(!CK * D * SE * !SI)	-0.00004	-0.00004	-0.00004
	RN	(!CK * D * SE * !SI)	0.00001	0.00002	0.00002
	RN	(!CK * D * SE * !SI)	0.00110	0.00117	0.00140
	RN	(!CK * D * !SE * SI)	0.00212	0.00227	0.00276
	RN	(!CK * D * !SE * SI)	-0.00012	-0.00011	-0.00010
	RN	(!CK * D * !SE * SI)	0.00005	0.00006	0.00006
	RN	(!CK * D * !SE * SI)	0.00122	0.00137	0.00187
	RN	(!CK * D * !SE * !SI)	0.00212	0.00227	0.00276
	RN	(!CK * D * !SE * !SI)	-0.00012	-0.00011	-0.00010
	RN	(!CK * D * !SE * !SI)	0.00005	0.00006	0.00006
	RN	(!CK * D * !SE * !SI)	0.00122	0.00137	0.00187
	RN	(!CK * !D * SE * SI)	0.00211	0.00227	0.00276
	RN	(!CK * !D * SE * SI)	-0.00012	-0.00011	-0.00010
	RN	(!CK * !D * SE * SI)	0.00005	0.00006	0.00006
	RN	(!CK * !D * SE * SI)	0.00122	0.00137	0.00187
	RN	(!CK * !D * SE * !SI)	0.00175	0.00183	0.00205
	RN	(!CK * !D * SE * !SI)	-0.00004	-0.00004	-0.00004
	RN	(!CK * !D * SE * !SI)	0.00001	0.00002	0.00006
	RN	(!CK * !D * SE * !SI)	0.00108	0.00117	0.00140
	RN	(!CK * !D * !SE * SI)	0.00175	0.00183	0.00205
	RN	(!CK * !D * !SE * SI)	-0.00004	-0.00004	-0.00004
	RN	(!CK * !D * !SE * SI)	0.00001	0.00002	0.00002
	RN	(!CK * !D * !SE * SI)	0.00110	0.00117	0.00140
	RN	(!CK * !D * !SE * !SI)	0.00175	0.00183	0.00205
	RN	(!CK * !D * !SE * !SI)	-0.00004	-0.00004	-0.00004
	RN	(!CK * !D * !SE * !SI)	0.00001	0.00002	0.00002
	RN	(!CK * !D * !SE * !SI)	0.00110	0.00117	0.00140

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX2H7R	CK	-	0.00216	0.00227	0.00256
	CK	-	0.00001	0.00003	0.00005
	CK	-	-0.00004	-0.00001	-0.00001
	CK	-	0.00262	0.00273	0.00303

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7R	**(D * RN * SE * SI)**	0.00168	0.00181	0.00227
	(D * RN * SE * SI)	-0.00002	-0.00001	0.00000
	(D * RN * SE * SI)	0.00000	0.00000	0.00000
	(D * RN * SE * SI)	0.00238	0.00250	0.00297
	(D * RN * SE * !SI)	0.00173	0.00186	0.00232
	(D * RN * SE * !SI)	-0.00001	-0.00000	0.00000
	(D * RN * SE * !SI)	-0.00001	-0.00001	0.00000
	(D * RN * SE * !SI)	0.00242	0.00255	0.00302
	(D * RN * !SE * SI)	0.00176	0.00189	0.00236
	(D * RN * !SE * SI)	-0.00002	-0.00000	0.00001
	(D * RN * !SE * SI)	-0.00000	0.00000	0.00001
	(D * RN * !SE * SI)	0.00246	0.00259	0.00305
	(D * RN * !SE * !SI)	0.00176	0.00189	0.00236
	(D * RN * !SE * !SI)	-0.00002	-0.00000	0.00001
	(D * RN * !SE * !SI)	-0.00000	0.00000	0.00001
	(D * RN * !SE * !SI)	0.00246	0.00259	0.00305
	(D * !RN * SE * SI)	0.00224	0.00237	0.00281
	(D * !RN * SE * SI)	0.00007	0.00007	0.00008
	(D * !RN * SE * SI)	-0.00009	-0.00008	-0.00007
	(D * !RN * SE * SI)	0.00313	0.00326	0.00371
	(D * !RN * SE * !SI)	0.00173	0.00186	0.00232
	(D * !RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00000
	(D * !RN * SE * !SI)	0.00243	0.00255	0.00302
	(D * !RN * !SE * SI)	0.00232	0.00245	0.00289
	(D * !RN * !SE * SI)	0.00007	0.00007	0.00008
	(D * !RN * !SE * SI)	-0.00009	-0.00008	-0.00007
	(D * !RN * !SE * SI)	0.00322	0.00334	0.00379
	(D * !RN * !SE * !SI)	0.00232	0.00245	0.00289
	(D * !RN * !SE * !SI)	0.00007	0.00008	0.00009
	(D * !RN * !SE * !SI)	-0.00009	-0.00008	-0.00007
	(D * !RN * !SE * !SI)	0.00322	0.00335	0.00379
	(!D * RN * SE * SI)	0.00168	0.00181	0.00227
	(!D * RN * SE * SI)	-0.00001	-0.00001	0.00000
	(!D * RN * SE * SI)	-0.00000	-0.00000	0.00000
	(!D * RN * SE * SI)	0.00238	0.00250	0.00297
	(!D * RN * SE * !SI)	0.00173	0.00186	0.00232
	(!D * RN * SE * !SI)	-0.00001	-0.00001	0.00000
	(!D * RN * SE * !SI)	-0.00001	-0.00001	0.00000
	(!D * RN * SE * !SI)	0.00242	0.00255	0.00302
	(!D * RN * !SE * SI)	0.00181	0.00194	0.00241
	(!D * RN * !SE * SI)	-0.00001	-0.00000	0.00000
	(!D * RN * !SE * SI)	-0.00001	-0.00001	0.00000
	(!D * RN * !SE * SI)	0.00251	0.00264	0.00310
	(!D * RN * !SE * !SI)	0.00181	0.00194	0.00241
	(!D * RN * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!D * RN * !SE * !SI)	-0.00001	-0.00001	0.00000
	(!D * RN * !SE * !SI)	0.00251	0.00264	0.00310
	(!D * !RN * SE * SI)	0.00224	0.00236	0.00281
	(!D * !RN * SE * SI)	0.00007	0.00008	0.00009
	(!D * !RN * SE * SI)	-0.00010	-0.00008	-0.00007
	(!D * !RN * SE * SI)	0.00313	0.00326	0.00371
	(!D * !RN * SE * !SI)	0.00173	0.00186	0.00232
	(!D * !RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(!D * !RN * SE * !SI)	-0.00001	-0.00001	-0.00000
	(!D * !RN * SE * !SI)	0.00243	0.00255	0.00302
	(!D * !RN * !SE * SI)	0.00182	0.00194	0.00241
	(!D * !RN * !SE * SI)	-0.00002	-0.00001	-0.00000
	(!D * !RN * !SE * SI)	-0.00001	-0.00001	0.00000
	(!D * !RN * !SE * SI)	0.00252	0.00264	0.00310
	(!D * !RN * !SE * !SI)	0.00182	0.00194	0.00241
	(!D * !RN * !SE * !SI)	-0.00002	-0.00001	-0.00000
	(!D * !RN * !SE * !SI)	-0.00001	-0.00001	0.00000
	(!D * !RN * !SE * !SI)	0.00251	0.00264	0.00310

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7R	**(D * RN * SE * SI)**	0.00388	0.00401	0.00449
	(D * RN * SE * SI)	0.00002	0.00002	0.00003
	(D * RN * SE * SI)	-0.00000	-0.00000	0.00000
	(D * RN * SE * SI)	0.00347	0.00360	0.00408
	(D * RN * SE * !SI)	0.00393	0.00409	0.00464
	(D * RN * SE * !SI)	0.00001	0.00002	0.00003
	(D * RN * SE * !SI)	0.00001	0.00002	0.00004
	(D * RN * SE * !SI)	0.00298	0.00314	0.00369
	(D * RN * !SE * SI)	0.00380	0.00392	0.00440
	(D * RN * !SE * SI)	0.00002	0.00003	0.00004
	(D * RN * !SE * SI)	-0.00001	-0.00000	0.00000
	(D * RN * !SE * SI)	0.00339	0.00351	0.00400
	(D * RN * !SE * !SI)	0.00380	0.00392	0.00440
	(D * RN * !SE * !SI)	0.00002	0.00003	0.00004
	(D * RN * !SE * !SI)	-0.00001	-0.00000	0.00000
	(D * RN * !SE * !SI)	0.00339	0.00351	0.00400
	(D * !RN * SE * SI)	0.00333	0.00347	0.00396
	(D * !RN * SE * SI)	-0.00008	-0.00007	-0.00007
	(D * !RN * SE * SI)	0.00007	0.00008	0.00009
	(D * !RN * SE * SI)	0.00245	0.00258	0.00306
	(D * !RN * SE * !SI)	0.00245	0.00259	0.00309
	(D * !RN * SE * !SI)	0.00001	0.00001	0.00002
	(D * !RN * SE * !SI)	0.00000	0.00001	0.00001
	(D * !RN * SE * !SI)	0.00176	0.00190	0.00240
	(D * !RN * !SE * SI)	0.00325	0.00339	0.00387
	(D * !RN * !SE * SI)	-0.00008	-0.00007	-0.00007
	(D * !RN * !SE * SI)	0.00007	0.00008	0.00009
	(D * !RN * !SE * SI)	0.00236	0.00250	0.00298
	(D * !RN * !SE * !SI)	0.00325	0.00339	0.00387
	(D * !RN * !SE * !SI)	-0.00009	-0.00008	-0.00007
	(D * !RN * !SE * !SI)	0.00007	0.00008	0.00009
	(D * !RN * !SE * !SI)	0.00236	0.00250	0.00298
	(!D * RN * SE * SI)	0.00387	0.00401	0.00449
	(!D * RN * SE * SI)	0.00001	0.00002	0.00004
	(!D * RN * SE * SI)	-0.00000	0.00000	0.00000
	(!D * RN * SE * SI)	0.00345	0.00360	0.00408
	(!D * RN * SE * !SI)	0.00393	0.00409	0.00464
	(!D * RN * SE * !SI)	0.00001	0.00002	0.00003
	(!D * RN * SE * !SI)	0.00001	0.00002	0.00004
	(!D * RN * SE * !SI)	0.00298	0.00313	0.00368
	(!D * RN * !SE * SI)	0.00385	0.00400	0.00456
	(!D * RN * !SE * SI)	0.00001	0.00002	0.00003
	(!D * RN * !SE * SI)	0.00001	0.00003	0.00004
	(!D * RN * !SE * SI)	0.00290	0.00305	0.00360
	(!D * RN * !SE * !SI)	0.00385	0.00400	0.00456
	(!D * RN * !SE * !SI)	0.00001	0.00002	0.00003
	(!D * RN * !SE * !SI)	0.00001	0.00003	0.00004
	(!D * RN * !SE * !SI)	0.00290	0.00305	0.00360
	(!D * !RN * SE * SI)	0.00333	0.00347	0.00396
	(!D * !RN * SE * SI)	-0.00008	-0.00007	-0.00007
	(!D * !RN * SE * SI)	0.00007	0.00008	0.00010
	(!D * !RN * SE * SI)	0.00245	0.00258	0.00306
	(!D * !RN * SE * !SI)	0.00245	0.00259	0.00309
	(!D * !RN * SE * !SI)	0.00001	0.00001	0.00002
	(!D * !RN * SE * !SI)	0.00000	0.00001	0.00001
	(!D * !RN * SE * !SI)	0.00176	0.00190	0.00240
	(!D * !RN * !SE * SI)	0.00237	0.00251	0.00300
	(!D * !RN * !SE * SI)	0.00000	0.00001	0.00002
	(!D * !RN * !SE * SI)	0.00000	0.00001	0.00001
	(!D * !RN * !SE * SI)	0.00167	0.00181	0.00231
	(!D * !RN * !SE * !SI)	0.00237	0.00251	0.00300
	(!D * !RN * !SE * !SI)	0.00000	0.00001	0.00002
	(!D * !RN * !SE * !SI)	0.00000	0.00001	0.00001
	(!D * !RN * !SE * !SI)	0.00167	0.00181	0.00231

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7R	**(CK * RN * SE * SI)**	-0.00011	-0.00010	-0.00009
	(CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * SI)	0.00029	0.00029	0.00029
	(CK * RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(CK * RN * SE * !SI)	-0.00002	-0.00002	-0.00001
	(CK * RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * !SI)	0.00025	0.00026	0.00026
	(CK * RN * !SE * SI)	0.00036	0.00042	0.00063
	(CK * RN * !SE * SI)	0.00013	0.00014	0.00015
	(CK * RN * !SE * SI)	-0.00012	-0.00011	-0.00011
	(CK * RN * !SE * SI)	0.00136	0.00141	0.00162
	(CK * RN * !SE * !SI)	0.00036	0.00042	0.00063
	(CK * RN * !SE * !SI)	0.00013	0.00014	0.00015
	(CK * RN * !SE * !SI)	-0.00012	-0.00011	-0.00011
	(CK * RN * !SE * !SI)	0.00136	0.00141	0.00162
	(CK * !RN * SE * SI)	-0.00011	-0.00010	-0.00009
	(CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * SI)	0.00029	0.00029	0.00029
	(CK * !RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(CK * !RN * SE * !SI)	-0.00001	-0.00002	-0.00001
	(CK * !RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * !SI)	0.00025	0.00026	0.00026
	(CK * !RN * !SE * SI)	0.00036	0.00042	0.00063
	(CK * !RN * !SE * SI)	0.00013	0.00014	0.00014
	(CK * !RN * !SE * SI)	-0.00013	-0.00012	-0.00011
	(CK * !RN * !SE * SI)	0.00135	0.00141	0.00162
	(CK * !RN * !SE * !SI)	0.00036	0.00042	0.00063
	(CK * !RN * !SE * !SI)	0.00013	0.00014	0.00014
	(CK * !RN * !SE * !SI)	-0.00013	-0.00012	-0.00011
	(CK * !RN * !SE * !SI)	0.00135	0.00141	0.00162
	(!CK * RN * SE * SI)	-0.00011	-0.00010	-0.00009
	(!CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * RN * SE * SI)	0.00029	0.00029	0.00029
	(!CK * RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(!CK * RN * SE * !SI)	-0.00001	-0.00002	-0.00001
	(!CK * RN * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * RN * SE * !SI)	0.00026	0.00026	0.00026
	(!CK * RN * !SE * SI)	0.00183	0.00189	0.00211
	(!CK * RN * !SE * SI)	0.00012	0.00012	0.00013
	(!CK * RN * !SE * SI)	-0.00013	-0.00013	-0.00012
	(!CK * RN * !SE * SI)	0.00307	0.00313	0.00333
	(!CK * RN * !SE * !SI)	0.00185	0.00189	0.00211
	(!CK * RN * !SE * !SI)	0.00011	0.00012	0.00013
	(!CK * RN * !SE * !SI)	-0.00013	-0.00012	-0.00011
	(!CK * RN * !SE * !SI)	0.00307	0.00313	0.00334
	(!CK * !RN * SE * SI)	-0.00011	-0.00010	-0.00009
	(!CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * SI)	0.00029	0.00029	0.00029
	(!CK * !RN * SE * !SI)	-0.00015	-0.00014	-0.00013
	(!CK * !RN * SE * !SI)	-0.00001	-0.00002	-0.00001
	(!CK * !RN * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * !SI)	0.00026	0.00026	0.00026
	(!CK * !RN * !SE * SI)	0.00134	0.00140	0.00161
	(!CK * !RN * !SE * SI)	-0.00001	-0.00001	-0.00000
	(!CK * !RN * !SE * SI)	0.00000	0.00000	0.00001
	(!CK * !RN * !SE * SI)	0.00202	0.00208	0.00229
	(!CK * !RN * !SE * !SI)	0.00134	0.00140	0.00162
	(!CK * !RN * !SE * !SI)	-0.00001	-0.00001	0.00000
	(!CK * !RN * !SE * !SI)	0.00000	0.00000	0.00001
	(!CK * !RN * !SE * !SI)	0.00202	0.00208	0.00229

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7R	**(CK * RN * SE * SI)**	0.00011	0.00012	0.00012
	(CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * SI)	-0.00029	-0.00028	-0.00028
	(CK * RN * SE * !SI)	0.00015	0.00015	0.00016
	(CK * RN * SE * !SI)	0.00001	0.00002	0.00002
	(CK * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * !SI)	-0.00025	-0.00024	-0.00024
	(CK * RN * !SE * SI)	0.00129	0.00135	0.00158
	(CK * RN * !SE * SI)	-0.00015	-0.00014	-0.00013
	(CK * RN * !SE * SI)	0.00011	0.00011	0.00012
	(CK * RN * !SE * SI)	0.00029	0.00036	0.00059
	(CK * RN * !SE * !SI)	0.00128	0.00135	0.00158
	(CK * RN * !SE * !SI)	-0.00015	-0.00014	-0.00013
	(CK * RN * !SE * !SI)	0.00011	0.00011	0.00012
	(CK * RN * !SE * !SI)	0.00029	0.00036	0.00059
	(CK * !RN * SE * SI)	0.00011	0.00012	0.00012
	(CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * SI)	-0.00029	-0.00028	-0.00028
	(CK * !RN * SE * !SI)	0.00015	0.00015	0.00016
	(CK * !RN * SE * !SI)	0.00001	0.00002	0.00001
	(CK * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * !SI)	-0.00025	-0.00024	-0.00024
	(CK * !RN * !SE * SI)	0.00128	0.00135	0.00158
	(CK * !RN * !SE * SI)	-0.00014	-0.00014	-0.00013
	(CK * !RN * !SE * SI)	0.00011	0.00012	0.00013
	(CK * !RN * !SE * SI)	0.00029	0.00035	0.00058
	(CK * !RN * !SE * !SI)	0.00128	0.00135	0.00158
	(CK * !RN * !SE * !SI)	-0.00014	-0.00014	-0.00013
	(CK * !RN * !SE * !SI)	0.00011	0.00012	0.00013
	(CK * !RN * !SE * !SI)	0.00029	0.00035	0.00058
	(!CK * RN * SE * SI)	0.00011	0.00012	0.00012
	(!CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * RN * SE * SI)	-0.00029	-0.00028	-0.00028
	(!CK * RN * SE * !SI)	0.00015	0.00015	0.00016
	(!CK * RN * SE * !SI)	0.00001	0.00002	0.00001
	(!CK * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CK * RN * SE * !SI)	-0.00025	-0.00024	-0.00024
	(!CK * RN * !SE * SI)	0.00282	0.00288	0.00311
	(!CK * RN * !SE * SI)	-0.00012	-0.00012	-0.00012
	(!CK * RN * !SE * SI)	0.00012	0.00013	0.00013
	(!CK * RN * !SE * SI)	0.00158	0.00165	0.00188
	(!CK * RN * !SE * !SI)	0.00282	0.00288	0.00311
	(!CK * RN * !SE * !SI)	-0.00013	-0.00012	-0.00011
	(!CK * RN * !SE * !SI)	0.00011	0.00012	0.00013
	(!CK * RN * !SE * !SI)	0.00158	0.00165	0.00188
	(!CK * !RN * SE * SI)	0.00011	0.00012	0.00012
	(!CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * SI)	-0.00029	-0.00028	-0.00028
	(!CK * !RN * SE * !SI)	0.00015	0.00015	0.00016
	(!CK * !RN * SE * !SI)	0.00001	0.00002	0.00001
	(!CK * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * !SI)	-0.00025	-0.00024	-0.00024
	(!CK * !RN * !SE * SI)	0.00179	0.00186	0.00209
	(!CK * !RN * !SE * SI)	0.00000	0.00001	0.00001
	(!CK * !RN * !SE * SI)	-0.00001	-0.00000	0.00000
	(!CK * !RN * !SE * SI)	0.00112	0.00118	0.00142
	(!CK * !RN * !SE * !SI)	0.00179	0.00186	0.00209
	(!CK * !RN * !SE * !SI)	0.00000	0.00001	0.00001
	(!CK * !RN * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!CK * !RN * !SE * !SI)	0.00112	0.00118	0.00142

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7R	**(CK * D * SE * SI)**	-0.00060	-0.00060	-0.00059
	(CK * D * SE * SI)	-0.00002	-0.00001	-0.00001
	(CK * D * SE * SI)	0.00003	0.00004	0.00005
	(CK * D * SE * SI)	0.00042	0.00042	0.00043
	(CK * D * SE * !SI)	-0.00060	-0.00060	-0.00059
	(CK * D * SE * !SI)	-0.00001	-0.00001	0.00000
	(CK * D * SE * !SI)	0.00001	0.00004	0.00005
	(CK * D * SE * !SI)	0.00042	0.00043	0.00045
	(CK * D * !SE * SI)	-0.00060	-0.00060	-0.00059
	(CK * D * !SE * SI)	-0.00002	-0.00001	-0.00001
	(CK * D * !SE * SI)	0.00003	0.00004	0.00005
	(CK * D * !SE * SI)	0.00042	0.00042	0.00043
	(CK * D * !SE * !SI)	-0.00060	-0.00060	-0.00059
	(CK * D * !SE * !SI)	-0.00002	-0.00001	-0.00001
	(CK * D * !SE * !SI)	0.00003	0.00004	0.00005
	(CK * D * !SE * !SI)	0.00042	0.00042	0.00043
	(CK * !D * SE * SI)	-0.00060	-0.00060	-0.00059
	(CK * !D * SE * SI)	-0.00002	-0.00001	-0.00001
	(CK * !D * SE * SI)	0.00003	0.00004	0.00005
	(CK * !D * SE * SI)	0.00042	0.00042	0.00043
	(CK * !D * SE * !SI)	-0.00060	-0.00060	-0.00059
	(CK * !D * SE * !SI)	-0.00001	-0.00001	0.00000
	(CK * !D * SE * !SI)	0.00001	0.00004	0.00005
	(CK * !D * SE * !SI)	0.00042	0.00043	0.00045
	(CK * !D * !SE * SI)	-0.00060	-0.00060	-0.00059
	(CK * !D * !SE * SI)	-0.00001	-0.00001	0.00000
	(CK * !D * !SE * SI)	0.00003	0.00004	0.00005
	(CK * !D * !SE * SI)	0.00042	0.00043	0.00043
	(CK * !D * !SE * !SI)	-0.00060	-0.00060	-0.00058
	(CK * !D * !SE * !SI)	-0.00001	-0.00001	0.00000
	(CK * !D * !SE * !SI)	0.00003	0.00004	0.00005
	(CK * !D * !SE * !SI)	0.00042	0.00043	0.00043
	(!CK * D * SE * SI)	-0.00009	0.00004	0.00052
	(!CK * D * SE * SI)	0.00010	0.00012	0.00013
	(!CK * D * SE * SI)	-0.00005	-0.00005	-0.00005
	(!CK * D * SE * SI)	0.00142	0.00155	0.00204
	(!CK * D * SE * !SI)	-0.00059	-0.00059	-0.00058
	(!CK * D * SE * !SI)	-0.00001	-0.00001	-0.00000
	(!CK * D * SE * !SI)	0.00003	0.00004	0.00006
	(!CK * D * SE * !SI)	0.00043	0.00044	0.00045
	(!CK * D * !SE * SI)	-0.00009	0.00004	0.00052
	(!CK * D * !SE * SI)	0.00010	0.00012	0.00013
	(!CK * D * !SE * SI)	-0.00005	-0.00005	-0.00005
	(!CK * D * !SE * SI)	0.00142	0.00155	0.00204
	(!CK * D * !SE * !SI)	-0.00009	0.00004	0.00052
	(!CK * D * !SE * !SI)	0.00010	0.00012	0.00013
	(!CK * D * !SE * !SI)	-0.00005	-0.00005	-0.00005
	(!CK * D * !SE * !SI)	0.00142	0.00155	0.00204
	(!CK * !D * SE * SI)	-0.00009	0.00004	0.00052
	(!CK * !D * SE * SI)	0.00010	0.00012	0.00013
	(!CK * !D * SE * SI)	-0.00005	-0.00005	-0.00005
	(!CK * !D * SE * SI)	0.00142	0.00155	0.00204
	(!CK * !D * SE * !SI)	-0.00059	-0.00059	-0.00058
	(!CK * !D * SE * !SI)	-0.00001	-0.00001	-0.00000
	(!CK * !D * SE * !SI)	0.00003	0.00004	0.00006
	(!CK * !D * SE * !SI)	0.00043	0.00044	0.00045
	(!CK * !D * !SE * SI)	-0.00059	-0.00059	-0.00058
	(!CK * !D * !SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !SE * SI)	0.00003	0.00004	0.00006
	(!CK * !D * !SE * SI)	0.00043	0.00044	0.00045
	(!CK * !D * !SE * !SI)	-0.00059	-0.00059	-0.00058
	(!CK * !D * !SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !SE * !SI)	0.00003	0.00004	0.00006
	(!CK * !D * !SE * !SI)	0.00043	0.00044	0.00045

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7R	**(CK * D * SE * SI)**	0.00059	0.00060	0.00060
	(CK * D * SE * SI)	0.00001	0.00001	0.00002
	(CK * D * SE * SI)	-0.00005	-0.00004	-0.00003
	(CK * D * SE * SI)	-0.00043	-0.00042	-0.00042
	(CK * D * SE * !SI)	0.00059	0.00060	0.00061
	(CK * D * SE * !SI)	0.00000	0.00001	0.00001
	(CK * D * SE * !SI)	-0.00005	-0.00003	-0.00001
	(CK * D * SE * !SI)	-0.00043	-0.00042	-0.00042
	(CK * D * !SE * SI)	0.00059	0.00060	0.00060
	(CK * D * !SE * SI)	0.00001	0.00001	0.00002
	(CK * D * !SE * SI)	-0.00005	-0.00004	-0.00003
	(CK * D * !SE * SI)	-0.00043	-0.00042	-0.00042
	(CK * D * !SE * !SI)	0.00059	0.00060	0.00060
	(CK * D * !SE * !SI)	0.00001	0.00001	0.00002
	(CK * D * !SE * !SI)	-0.00005	-0.00004	-0.00003
	(CK * D * !SE * !SI)	-0.00043	-0.00042	-0.00042
	(CK * !D * SE * SI)	0.00059	0.00060	0.00060
	(CK * !D * SE * SI)	0.00001	0.00001	0.00002
	(CK * !D * SE * SI)	-0.00005	-0.00004	-0.00003
	(CK * !D * SE * SI)	-0.00043	-0.00042	-0.00042
	(CK * !D * SE * !SI)	0.00059	0.00060	0.00061
	(CK * !D * SE * !SI)	0.00000	0.00001	0.00001
	(CK * !D * SE * !SI)	-0.00005	-0.00003	-0.00001
	(CK * !D * SE * !SI)	-0.00043	-0.00042	-0.00042
	(CK * !D * !SE * SI)	0.00059	0.00060	0.00061
	(CK * !D * !SE * SI)	-0.00000	0.00001	0.00001
	(CK * !D * !SE * SI)	-0.00005	-0.00003	-0.00003
	(CK * !D * !SE * SI)	-0.00043	-0.00042	-0.00042
	(CK * !D * !SE * !SI)	0.00058	0.00060	0.00060
	(CK * !D * !SE * !SI)	0.00001	0.00001	0.00003
	(CK * !D * !SE * !SI)	-0.00005	-0.00003	-0.00003
	(CK * !D * !SE * !SI)	-0.00043	-0.00042	-0.00040
	(!CK * D * SE * SI)	0.00131	0.00146	0.00201
	(!CK * D * SE * SI)	-0.00013	-0.00012	-0.00010
	(!CK * D * SE * SI)	0.00005	0.00005	0.00006
	(!CK * D * SE * SI)	-0.00020	-0.00005	0.00049
	(!CK * D * SE * !SI)	0.00058	0.00059	0.00059
	(!CK * D * SE * !SI)	0.00000	0.00001	0.00001
	(!CK * D * SE * !SI)	-0.00005	-0.00004	-0.00003
	(!CK * D * SE * !SI)	-0.00044	-0.00044	-0.00042
	(!CK * D * !SE * SI)	0.00131	0.00146	0.00201
	(!CK * D * !SE * SI)	-0.00013	-0.00012	-0.00010
	(!CK * D * !SE * SI)	0.00005	0.00005	0.00006
	(!CK * D * !SE * SI)	-0.00020	-0.00005	0.00049
	(!CK * D * !SE * !SI)	0.00131	0.00146	0.00201
	(!CK * D * !SE * !SI)	-0.00013	-0.00012	-0.00010
	(!CK * D * !SE * !SI)	0.00005	0.00005	0.00006
	(!CK * D * !SE * !SI)	-0.00020	-0.00005	0.00049
	(!CK * !D * SE * SI)	0.00131	0.00146	0.00201
	(!CK * !D * SE * SI)	-0.00013	-0.00012	-0.00010
	(!CK * !D * SE * SI)	0.00005	0.00005	0.00006
	(!CK * !D * SE * SI)	-0.00020	-0.00005	0.00049
	(!CK * !D * SE * !SI)	0.00058	0.00059	0.00059
	(!CK * !D * SE * !SI)	0.00000	0.00001	0.00001
	(!CK * !D * SE * !SI)	-0.00005	-0.00004	-0.00003
	(!CK * !D * SE * !SI)	-0.00044	-0.00044	-0.00042
	(!CK * !D * !SE * SI)	0.00059	0.00059	0.00059
	(!CK * !D * !SE * SI)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * SI)	-0.00004	-0.00004	-0.00003
	(!CK * !D * !SE * SI)	-0.00044	-0.00044	-0.00043
	(!CK * !D * !SE * !SI)	0.00059	0.00059	0.00059
	(!CK * !D * !SE * !SI)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * !SI)	-0.00004	-0.00004	-0.00003
	(!CK * !D * !SE * !SI)	-0.00044	-0.00044	-0.00043

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7R	**(CK * D * RN * SI)**	-0.00015	0.00001	0.00059
	(CK * D * RN * SI)	0.00003	0.00004	0.00004
	(CK * D * RN * SI)	-0.00003	-0.00002	-0.00002
	(CK * D * RN * SI)	0.00109	0.00126	0.00184
	(CK * D * RN * !SI)	0.00123	0.00138	0.00193
	(CK * D * RN * !SI)	-0.00008	-0.00007	-0.00005
	(CK * D * RN * !SI)	0.00004	0.00005	0.00006
	(CK * D * RN * !SI)	0.00203	0.00218	0.00273
	(CK * D * !RN * SI)	-0.00015	0.00001	0.00059
	(CK * D * !RN * SI)	0.00004	0.00004	0.00004
	(CK * D * !RN * SI)	-0.00003	-0.00002	-0.00002
	(CK * D * !RN * SI)	0.00109	0.00126	0.00184
	(CK * D * !RN * !SI)	0.00123	0.00138	0.00193
	(CK * D * !RN * !SI)	-0.00007	-0.00006	-0.00006
	(CK * D * !RN * !SI)	0.00005	0.00006	0.00007
	(CK * D * !RN * !SI)	0.00202	0.00218	0.00272
	(CK * !D * RN * SI)	-0.00006	0.00021	0.00120
	(CK * !D * RN * SI)	0.00014	0.00014	0.00015
	(CK * !D * RN * SI)	-0.00012	-0.00011	-0.00010
	(CK * !D * RN * SI)	0.00162	0.00189	0.00289
	(CK * !D * RN * !SI)	-0.00007	0.00010	0.00069
	(CK * !D * RN * !SI)	0.00003	0.00004	0.00005
	(CK * !D * RN * !SI)	-0.00003	-0.00002	-0.00002
	(CK * !D * RN * !SI)	0.00117	0.00134	0.00193
	(CK * !D * !RN * SI)	-0.00007	0.00021	0.00121
	(CK * !D * !RN * SI)	0.00014	0.00014	0.00014
	(CK * !D * !RN * SI)	-0.00012	-0.00012	-0.00011
	(CK * !D * !RN * SI)	0.00162	0.00189	0.00289
	(CK * !D * !RN * !SI)	-0.00007	0.00010	0.00069
	(CK * !D * !RN * !SI)	0.00003	0.00004	0.00005
	(CK * !D * !RN * !SI)	-0.00003	-0.00002	-0.00002
	(CK * !D * !RN * !SI)	0.00117	0.00134	0.00193
	(!CK * D * RN * SI)	-0.00007	0.00009	0.00067
	(!CK * D * RN * SI)	0.00004	0.00004	0.00004
	(!CK * D * RN * SI)	-0.00003	-0.00002	-0.00001
	(!CK * D * RN * SI)	0.00117	0.00134	0.00192
	(!CK * D * RN * !SI)	0.00284	0.00300	0.00354
	(!CK * D * RN * !SI)	-0.00005	-0.00005	-0.00004
	(!CK * D * RN * !SI)	0.00004	0.00006	0.00008
	(!CK * D * RN * !SI)	0.00341	0.00357	0.00410
	(!CK * D * !RN * SI)	-0.00007	0.00009	0.00067
	(!CK * D * !RN * SI)	0.00004	0.00004	0.00004
	(!CK * D * !RN * SI)	-0.00003	-0.00002	-0.00001
	(!CK * D * !RN * SI)	0.00117	0.00134	0.00192
	(!CK * D * !RN * !SI)	0.00182	0.00198	0.00252
	(!CK * D * !RN * !SI)	0.00007	0.00008	0.00009
	(!CK * D * !RN * !SI)	-0.00006	-0.00006	-0.00005
	(!CK * D * !RN * !SI)	0.00294	0.00309	0.00363
	(!CK * !D * RN * SI)	0.00150	0.00177	0.00276
	(!CK * !D * RN * SI)	0.00009	0.00012	0.00014
	(!CK * !D * RN * SI)	-0.00013	-0.00012	-0.00010
	(!CK * !D * RN * SI)	0.00342	0.00369	0.00469
	(!CK * !D * RN * !SI)	0.00001	0.00018	0.00077
	(!CK * !D * RN * !SI)	0.00002	0.00003	0.00004
	(!CK * !D * RN * !SI)	-0.00003	-0.00003	-0.00002
	(!CK * !D * RN * !SI)	0.00125	0.00142	0.00201
	(!CK * !D * !RN * SI)	0.00100	0.00127	0.00227
	(!CK * !D * !RN * SI)	-0.00002	-0.00001	0.00000
	(!CK * !D * !RN * SI)	0.00000	0.00001	0.00002
	(!CK * !D * !RN * SI)	0.00237	0.00264	0.00365
	(!CK * !D * !RN * !SI)	0.00001	0.00018	0.00077
	(!CK * !D * !RN * !SI)	0.00003	0.00004	0.00005
	(!CK * !D * !RN * !SI)	-0.00003	-0.00003	-0.00002
	(!CK * !D * !RN * !SI)	0.00125	0.00142	0.00201

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7R	**(CK * D * RN * SI)**	0.00118	0.00136	0.00199
	(CK * D * RN * SI)	-0.00004	-0.00003	-0.00003
	(CK * D * RN * SI)	0.00002	0.00002	0.00003
	(CK * D * RN * SI)	-0.00006	0.00012	0.00075
	(CK * D * RN * !SI)	0.00166	0.00185	0.00247
	(CK * D * RN * !SI)	0.00005	0.00007	0.00008
	(CK * D * RN * !SI)	-0.00006	-0.00005	-0.00004
	(CK * D * RN * !SI)	0.00088	0.00106	0.00169
	(CK * D * !RN * SI)	0.00118	0.00136	0.00199
	(CK * D * !RN * SI)	-0.00004	-0.00004	-0.00003
	(CK * D * !RN * SI)	0.00002	0.00003	0.00003
	(CK * D * !RN * SI)	-0.00006	0.00012	0.00075
	(CK * D * !RN * !SI)	0.00167	0.00185	0.00248
	(CK * D * !RN * !SI)	0.00006	0.00006	0.00007
	(CK * D * !RN * !SI)	-0.00007	-0.00006	-0.00005
	(CK * D * !RN * !SI)	0.00087	0.00105	0.00169
	(CK * !D * RN * SI)	0.00194	0.00224	0.00330
	(CK * !D * RN * SI)	-0.00015	-0.00014	-0.00014
	(CK * !D * RN * SI)	0.00011	0.00011	0.00012
	(CK * !D * RN * SI)	0.00026	0.00056	0.00162
	(CK * !D * RN * !SI)	0.00108	0.00126	0.00189
	(CK * !D * RN * !SI)	-0.00004	-0.00004	-0.00003
	(CK * !D * RN * !SI)	0.00002	0.00003	0.00003
	(CK * !D * RN * !SI)	-0.00015	0.00003	0.00065
	(CK * !D * !RN * SI)	0.00194	0.00224	0.00330
	(CK * !D * !RN * SI)	-0.00014	-0.00014	-0.00013
	(CK * !D * !RN * SI)	0.00011	0.00012	0.00012
	(CK * !D * !RN * SI)	0.00025	0.00055	0.00161
	(CK * !D * !RN * !SI)	0.00108	0.00127	0.00189
	(CK * !D * !RN * !SI)	-0.00005	-0.00004	-0.00003
	(CK * !D * !RN * !SI)	0.00003	0.00003	0.00003
	(CK * !D * !RN * !SI)	-0.00016	0.00003	0.00065
	(!CK * D * RN * SI)	0.00109	0.00128	0.00191
	(!CK * D * RN * SI)	-0.00004	-0.00003	-0.00003
	(!CK * D * RN * SI)	0.00002	0.00003	0.00003
	(!CK * D * RN * SI)	-0.00014	0.00003	0.00067
	(!CK * D * RN * !SI)	0.00307	0.00325	0.00387
	(!CK * D * RN * !SI)	0.00004	0.00005	0.00007
	(!CK * D * RN * !SI)	-0.00008	-0.00006	-0.00004
	(!CK * D * RN * !SI)	0.00251	0.00270	0.00332
	(!CK * D * !RN * SI)	0.00109	0.00127	0.00191
	(!CK * D * !RN * SI)	-0.00004	-0.00003	-0.00002
	(!CK * D * !RN * SI)	0.00002	0.00003	0.00003
	(!CK * D * !RN * SI)	-0.00014	0.00003	0.00067
	(!CK * D * !RN * !SI)	0.00257	0.00275	0.00338
	(!CK * D * !RN * !SI)	-0.00009	-0.00007	-0.00006
	(!CK * D * !RN * !SI)	0.00005	0.00006	0.00006
	(!CK * D * !RN * !SI)	0.00146	0.00165	0.00228
	(!CK * !D * RN * SI)	0.00339	0.00369	0.00475
	(!CK * !D * RN * SI)	-0.00013	-0.00012	-0.00009
	(!CK * !D * RN * SI)	0.00010	0.00012	0.00014
	(!CK * !D * RN * SI)	0.00146	0.00177	0.00283
	(!CK * !D * RN * !SI)	0.00100	0.00118	0.00181
	(!CK * !D * RN * !SI)	-0.00004	-0.00003	-0.00002
	(!CK * !D * RN * !SI)	0.00002	0.00003	0.00003
	(!CK * !D * RN * !SI)	-0.00024	-0.00006	0.00057
	(!CK * !D * !RN * SI)	0.00235	0.00266	0.00373
	(!CK * !D * !RN * SI)	0.00000	0.00001	0.00002
	(!CK * !D * !RN * SI)	-0.00002	-0.00001	0.00000
	(!CK * !D * !RN * SI)	0.00099	0.00130	0.00236
	(!CK * !D * !RN * !SI)	0.00100	0.00118	0.00181
	(!CK * !D * !RN * !SI)	-0.00004	-0.00004	-0.00003
	(!CK * !D * !RN * !SI)	0.00002	0.00003	0.00003
	(!CK * !D * !RN * !SI)	-0.00024	-0.00006	0.00057

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7R	**(CK * D * RN * SE)**	0.00010	0.00014	0.00033
	(CK * D * RN * SE)	0.00013	0.00014	0.00014
	(CK * D * RN * SE)	-0.00011	-0.00011	-0.00010
	(CK * D * RN * SE)	0.00103	0.00107	0.00126
	(CK * D * RN * !SE)	-0.00016	-0.00015	-0.00014
	(CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * RN * !SE)	0.00019	0.00019	0.00020
	(CK * D * !RN * SE)	0.00010	0.00014	0.00034
	(CK * D * !RN * SE)	0.00013	0.00013	0.00013
	(CK * D * !RN * SE)	-0.00011	-0.00011	-0.00010
	(CK * D * !RN * SE)	0.00103	0.00107	0.00126
	(CK * D * !RN * !SE)	-0.00016	-0.00015	-0.00014
	(CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * !RN * !SE)	0.00019	0.00019	0.00020
	(CK * !D * RN * SE)	0.00010	0.00015	0.00033
	(CK * !D * RN * SE)	0.00013	0.00014	0.00014
	(CK * !D * RN * SE)	-0.00011	-0.00011	-0.00011
	(CK * !D * RN * SE)	0.00103	0.00108	0.00126
	(CK * !D * RN * !SE)	-0.00016	-0.00015	-0.00014
	(CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * RN * !SE)	0.00020	0.00020	0.00020
	(CK * !D * !RN * SE)	0.00010	0.00015	0.00034
	(CK * !D * !RN * SE)	0.00013	0.00013	0.00013
	(CK * !D * !RN * SE)	-0.00012	-0.00011	-0.00010
	(CK * !D * !RN * SE)	0.00103	0.00107	0.00126
	(CK * !D * !RN * !SE)	-0.00016	-0.00015	-0.00014
	(CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * !RN * !SE)	0.00020	0.00020	0.00020
	(!CK * D * RN * SE)	0.00157	0.00162	0.00181
	(!CK * D * RN * SE)	0.00010	0.00011	0.00012
	(!CK * D * RN * SE)	-0.00013	-0.00011	-0.00010
	(!CK * D * RN * SE)	0.00274	0.00279	0.00298
	(!CK * D * RN * !SE)	-0.00016	-0.00015	-0.00014
	(!CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * RN * !SE)	0.00019	0.00019	0.00020
	(!CK * D * !RN * SE)	0.00108	0.00112	0.00132
	(!CK * D * !RN * SE)	-0.00002	-0.00001	-0.00000
	(!CK * D * !RN * SE)	0.00000	0.00001	0.00001
	(!CK * D * !RN * SE)	0.00169	0.00174	0.00194
	(!CK * D * !RN * !SE)	-0.00016	-0.00015	-0.00014
	(!CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * !RN * !SE)	0.00019	0.00019	0.00020
	(!CK * !D * RN * SE)	0.00157	0.00162	0.00181
	(!CK * !D * RN * SE)	0.00010	0.00011	0.00012
	(!CK * !D * RN * SE)	-0.00013	-0.00011	-0.00010
	(!CK * !D * RN * SE)	0.00275	0.00280	0.00298
	(!CK * !D * RN * !SE)	-0.00016	-0.00015	-0.00014
	(!CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * RN * !SE)	0.00020	0.00020	0.00020
	(!CK * !D * !RN * SE)	0.00108	0.00113	0.00132
	(!CK * !D * !RN * SE)	-0.00002	-0.00001	-0.00001
	(!CK * !D * !RN * SE)	0.00000	0.00001	0.00001
	(!CK * !D * !RN * SE)	0.00170	0.00175	0.00194
	(!CK * !D * !RN * !SE)	-0.00016	-0.00015	-0.00014
	(!CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * !RN * !SE)	0.00020	0.00020	0.00020

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX2H7R	**(CK * D * RN * SE)**	0.00152	0.00157	0.00177
	(CK * D * RN * SE)	-0.00014	-0.00014	-0.00013
	(CK * D * RN * SE)	0.00010	0.00011	0.00011
	(CK * D * RN * SE)	0.00059	0.00064	0.00085
	(CK * D * RN * !SE)	0.00016	0.00016	0.00016
	(CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * RN * !SE)	-0.00019	-0.00018	-0.00018
	(CK * D * !RN * SE)	0.00152	0.00157	0.00177
	(CK * D * !RN * SE)	-0.00013	-0.00013	-0.00013
	(CK * D * !RN * SE)	0.00010	0.00011	0.00011
	(CK * D * !RN * SE)	0.00058	0.00064	0.00085
	(CK * D * !RN * !SE)	0.00016	0.00016	0.00016
	(CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * !RN * !SE)	-0.00019	-0.00018	-0.00018
	(CK * !D * RN * SE)	0.00152	0.00157	0.00177
	(CK * !D * RN * SE)	-0.00014	-0.00014	-0.00013
	(CK * !D * RN * SE)	0.00011	0.00011	0.00011
	(CK * !D * RN * SE)	0.00059	0.00064	0.00085
	(CK * !D * RN * !SE)	0.00016	0.00016	0.00017
	(CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * RN * !SE)	-0.00019	-0.00018	-0.00017
	(CK * !D * !RN * SE)	0.00151	0.00156	0.00177
	(CK * !D * !RN * SE)	-0.00013	-0.00013	-0.00013
	(CK * !D * !RN * SE)	0.00010	0.00011	0.00012
	(CK * !D * !RN * SE)	0.00058	0.00064	0.00084
	(CK * !D * !RN * !SE)	0.00016	0.00016	0.00017
	(CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * !RN * !SE)	-0.00019	-0.00018	-0.00017
	(!CK * D * RN * SE)	0.00305	0.00310	0.00331
	(!CK * D * RN * SE)	-0.00012	-0.00011	-0.00010
	(!CK * D * RN * SE)	0.00010	0.00011	0.00013
	(!CK * D * RN * SE)	0.00188	0.00194	0.00214
	(!CK * D * RN * !SE)	0.00016	0.00016	0.00016
	(!CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * RN * !SE)	-0.00019	-0.00018	-0.00018
	(!CK * D * !RN * SE)	0.00202	0.00208	0.00228
	(!CK * D * !RN * SE)	0.00000	0.00001	0.00002
	(!CK * D * !RN * SE)	-0.00001	-0.00001	-0.00000
	(!CK * D * !RN * SE)	0.00141	0.00146	0.00168
	(!CK * D * !RN * !SE)	0.00016	0.00016	0.00016
	(!CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * !RN * !SE)	-0.00019	-0.00018	-0.00018
	(!CK * !D * RN * SE)	0.00305	0.00310	0.00330
	(!CK * !D * RN * SE)	-0.00012	-0.00011	-0.00010
	(!CK * !D * RN * SE)	0.00010	0.00011	0.00013
	(!CK * !D * RN * SE)	0.00188	0.00194	0.00214
	(!CK * !D * RN * !SE)	0.00016	0.00016	0.00017
	(!CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * RN * !SE)	-0.00019	-0.00018	-0.00017
	(!CK * !D * !RN * SE)	0.00202	0.00207	0.00228
	(!CK * !D * !RN * SE)	0.00001	0.00001	0.00002
	(!CK * !D * !RN * SE)	-0.00001	-0.00001	0.00000
	(!CK * !D * !RN * SE)	0.00141	0.00146	0.00167
	(!CK * !D * !RN * !SE)	0.00016	0.00016	0.00017
	(!CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !RN * !SE)	-0.00019	-0.00018	-0.00017

SDFFRX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Negative Edge Trigger Scan D Flip-Flop with Async Clear
Q = !RN ?0 : falling (CKN) ? (SE&SI| !SE&D) : prev_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	RN	SE	SI	Q	QN
R	0	1	0	x	0	1
R	x	1	1	0	0	1
R	x	1	1	1	1	0
R	1	1	0	x	1	0
x	x	0	x	x	0	1
x	x	1	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFRX3H7R	11.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	RN	SE	SI	Q	QN
SDFFRX3H7R	0.00100	0.00071	0.00208	0.00187	0.00069	0.12539	0.12595

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFRX3H7R	0.00000	1.55408	2.07742

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX3H7R	CK->Q (RR)	-	0.09291	0.25257	0.61442

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX3H7R	CK->Q (RF)	-	0.07250	0.20384	0.48613
	RN->Q (FF)	(CK * D * SE * SI)	0.04020	0.16532	0.45547
	RN->Q (FF)	(CK * D * SE * !SI)	0.04020	0.16532	0.45547
	RN->Q (FF)	(CK * D * !SE * SI)	0.04020	0.16532	0.45547
	RN->Q (FF)	(CK * D * !SE * !SI)	0.04020	0.16532	0.45547
	RN->Q (FF)	(CK * !D * SE * SI)	0.04020	0.16532	0.45547
	RN->Q (FF)	(CK * !D * SE * !SI)	0.04020	0.16532	0.45547
	RN->Q (FF)	(CK * !D * !SE * SI)	0.04020	0.16532	0.45547
	RN->Q (FF)	(CK * !D * !SE * !SI)	0.04020	0.16532	0.45547
	RN->Q (FF)	(!CK * D * SE * SI)	0.05644	0.19778	0.51981
	RN->Q (FF)	(!CK * D * SE * !SI)	0.05637	0.19756	0.51953
	RN->Q (FF)	(!CK * D * !SE * SI)	0.05644	0.19778	0.51981
	RN->Q (FF)	(!CK * D * !SE * !SI)	0.05644	0.19778	0.51981
	RN->Q (FF)	(!CK * !D * SE * SI)	0.05644	0.19778	0.51981
	RN->Q (FF)	(!CK * !D * SE * !SI)	0.05639	0.19756	0.51951
	RN->Q (FF)	(!CK * !D * !SE * SI)	0.05637	0.19755	0.51950
	RN->Q (FF)	(!CK * !D * !SE * !SI)	0.05637	0.19755	0.51950

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX3H7R	CK->QN (RR)	-	0.11092	0.25838	0.61809
	RN->QN (FR)	(CK * D * SE * SI)	0.06989	0.22181	0.58885
	RN->QN (FR)	(CK * D * SE * !SI)	0.06989	0.22181	0.58885
	RN->QN (FR)	(CK * D * !SE * SI)	0.06989	0.22181	0.58890
	RN->QN (FR)	(CK * D * !SE * !SI)	0.06989	0.22182	0.58912
	RN->QN (FR)	(CK * !D * SE * SI)	0.06989	0.22181	0.58885
	RN->QN (FR)	(CK * !D * SE * !SI)	0.06989	0.22181	0.58885
	RN->QN (FR)	(CK * !D * !SE * SI)	0.06989	0.22181	0.58885
	RN->QN (FR)	(CK * !D * !SE * !SI)	0.06989	0.22181	0.58885
	RN->QN (FR)	(!CK * D * SE * SI)	0.09394	0.25461	0.64937
	RN->QN (FR)	(!CK * D * SE * !SI)	0.09387	0.25441	0.64962
	RN->QN (FR)	(!CK * D * !SE * SI)	0.09394	0.25460	0.64937
	RN->QN (FR)	(!CK * D * !SE * !SI)	0.09394	0.25461	0.64937
	RN->QN (FR)	(!CK * !D * SE * SI)	0.09394	0.25461	0.64937
	RN->QN (FR)	(!CK * !D * SE * !SI)	0.09389	0.25441	0.64962
	RN->QN (FR)	(!CK * !D * !SE * SI)	0.09387	0.25441	0.64963
	RN->QN (FR)	(!CK * !D * !SE * !SI)	0.09387	0.25441	0.64961

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFRX3H7R	CK->QN (RF)	-	0.12921	0.24710	0.51860

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFRX3H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7R	**hold**	**CK (R)**	-0.08033	-0.01630	0.04147
	setup	**CK (R)**	-0.02429	0.05177	0.13533

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7R	**hold**	**CK (R)**	-0.15479	-0.07278	-0.02405
	setup	**CK (R)**	0.04553	0.09551	0.18319

Min Pulse Width (ns) for RN:

Cell Name	High	Low
SDFFRX3H7R	-	0.9851

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7R	**hold**	**CK (R)**	0.02826	0.06973	0.13175
	setup	**CK (R)**	-0.10714	0.01827	0.29618

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7R	hold	CK (R)	-0.05776	-0.00744	0.04204
	setup	CK (R)	0.06841	0.10005	0.14724

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7R	hold	CK (R)	-0.11137	-0.03132	0.03393
	setup	CK (R)	0.02988	0.08018	0.15707

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7R	hold	CK (R)	-0.09191	-0.01985	0.03889
	setup	CK (R)	-0.02098	0.05605	0.14250

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFRX3H7R	hold	CK (R)	-0.16867	-0.08247	-0.03103
	setup	CK (R)	0.05391	0.10566	0.20022

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX3H7R	CK	-	0.00255	0.00267	0.00299
	CK	-	0.00000	0.00002	0.00005
	CK	-	-0.00003	-0.00001	0.00002
	CK	-	0.00301	0.00313	0.00347

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX3H7R	CK	-	0.00252	0.00265	0.00294
	CK	-	-0.00004	-0.00002	0.00000
	CK	-	0.00000	0.00001	0.00003
	CK	-	0.00279	0.00289	0.00320
	RN	(CK * D * SE * SI)	0.00271	0.00284	0.00320
	RN	(CK * D * SE * SI)	-0.00006	-0.00004	-0.00003
	RN	(CK * D * SE * SI)	-0.00006	-0.00002	0.00002
	RN	(CK * D * SE * SI)	0.00194	0.00209	0.00245
	RN	(CK * D * SE * !SI)	0.00271	0.00284	0.00320
	RN	(CK * D * SE * !SI)	-0.00006	-0.00004	-0.00003
	RN	(CK * D * SE * !SI)	-0.00006	-0.00002	0.00002
	RN	(CK * D * SE * !SI)	0.00198	0.00209	0.00245
	RN	(CK * D * !SE * SI)	0.00271	0.00284	0.00320
	RN	(CK * D * !SE * SI)	-0.00006	-0.00004	-0.00003
	RN	(CK * D * !SE * SI)	-0.00005	-0.00001	0.00003
	RN	(CK * D * !SE * SI)	0.00194	0.00209	0.00245
	RN	(CK * D * !SE * !SI)	0.00271	0.00284	0.00320
	RN	(CK * D * !SE * !SI)	-0.00007	-0.00004	-0.00004
	RN	(CK * D * !SE * !SI)	-0.00006	-0.00002	0.00002
	RN	(CK * D * !SE * !SI)	0.00198	0.00209	0.00245
	RN	(CK * !D * SE * SI)	0.00271	0.00284	0.00320
	RN	(CK * !D * SE * SI)	-0.00006	-0.00004	-0.00003
	RN	(CK * !D * SE * SI)	-0.00006	-0.00002	0.00002
	RN	(CK * !D * SE * SI)	0.00194	0.00209	0.00245
	RN	(CK * !D * SE * !SI)	0.00271	0.00284	0.00320
	RN	(CK * !D * SE * !SI)	-0.00006	-0.00004	-0.00003
	RN	(CK * !D * SE * !SI)	-0.00005	-0.00002	0.00002
	RN	(CK * !D * SE * !SI)	0.00194	0.00209	0.00245
	RN	(CK * !D * !SE * SI)	0.00271	0.00284	0.00320
	RN	(CK * !D * !SE * SI)	-0.00005	-0.00004	-0.00002
	RN	(CK * !D * !SE * SI)	-0.00005	-0.00002	0.00002
	RN	(CK * !D * !SE * SI)	0.00194	0.00209	0.00245
	RN	(CK * !D * !SE * !SI)	0.00271	0.00284	0.00320
	RN	(CK * !D * !SE * !SI)	-0.00005	-0.00004	-0.00002
	RN	(CK * !D * !SE * !SI)	-0.00006	-0.00002	0.00002
	RN	(CK * !D * !SE * !SI)	0.00198	0.00209	0.00245
	RN	(!CK * D * SE * SI)	0.00251	0.00267	0.00331
	RN	(!CK * D * SE * SI)	-0.00012	-0.00011	-0.00010
	RN	(!CK * D * SE * SI)	0.00003	0.00006	0.00006
	RN	(!CK * D * SE * SI)	0.00159	0.00176	0.00240
	RN	(!CK * D * SE * !SI)	0.00212	0.00221	0.00256
	RN	(!CK * D * SE * !SI)	-0.00006	-0.00004	-0.00001
	RN	(!CK * D * SE * !SI)	-0.00001	0.00002	0.00004
	RN	(!CK * D * SE * !SI)	0.00145	0.00156	0.00191
	RN	(!CK * D * !SE * SI)	0.00251	0.00267	0.00331
	RN	(!CK * D * !SE * SI)	-0.00012	-0.00011	-0.00010
	RN	(!CK * D * !SE * SI)	0.00004	0.00006	0.00009
	RN	(!CK * D * !SE * SI)	0.00159	0.00176	0.00240
	RN	(!CK * D * !SE * !SI)	0.00251	0.00267	0.00331
	RN	(!CK * D * !SE * !SI)	-0.00012	-0.00011	-0.00010
	RN	(!CK * D * !SE * !SI)	0.00004	0.00006	0.00009
	RN	(!CK * D * !SE * !SI)	0.00159	0.00176	0.00240
	RN	(!CK * !D * SE * SI)	0.00251	0.00267	0.00331
	RN	(!CK * !D * SE * SI)	-0.00012	-0.00011	-0.00010
	RN	(!CK * !D * SE * SI)	0.00003	0.00006	0.00006
	RN	(!CK * !D * SE * SI)	0.00159	0.00176	0.00240
	RN	(!CK * !D * SE * !SI)	0.00212	0.00221	0.00256
	RN	(!CK * !D * SE * !SI)	-0.00006	-0.00004	-0.00001
	RN	(!CK * !D * SE * !SI)	-0.00001	0.00002	0.00004
	RN	(!CK * !D * SE * !SI)	0.00145	0.00156	0.00191
	RN	(!CK * !D * !SE * SI)	0.00212	0.00221	0.00257
	RN	(!CK * !D * !SE * SI)	-0.00006	-0.00004	-0.00001
	RN	(!CK * !D * !SE * SI)	-0.00001	0.00002	0.00004
	RN	(!CK * !D * !SE * SI)	0.00145	0.00156	0.00191
	RN	(!CK * !D * !SE * !SI)	0.00212	0.00221	0.00257
	RN	(!CK * !D * !SE * !SI)	-0.00006	-0.00004	-0.00001
	RN	(!CK * !D * !SE * !SI)	-0.00001	0.00002	0.00004
	RN	(!CK * !D * !SE * !SI)	0.00145	0.00156	0.00191

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFRX3H7R	CK	-	0.00254	0.00265	0.00294
	CK	-	-0.00004	-0.00002	-0.00001
	CK	-	0.00000	0.00001	0.00001
	CK	-	0.00278	0.00290	0.00321
	RN	(CK * D * SE * SI)	0.00271	0.00284	0.00320
	RN	(CK * D * SE * SI)	-0.00004	-0.00004	-0.00004
	RN	(CK * D * SE * SI)	-0.00002	-0.00002	-0.00001
	RN	(CK * D * SE * SI)	0.00197	0.00209	0.00245
	RN	(CK * D * SE * !SI)	0.00271	0.00284	0.00320
	RN	(CK * D * SE * !SI)	-0.00005	-0.00004	-0.00004
	RN	(CK * D * SE * !SI)	-0.00002	-0.00002	-0.00001
	RN	(CK * D * SE * !SI)	0.00197	0.00209	0.00245
	RN	(CK * D * !SE * SI)	0.00271	0.00284	0.00320
	RN	(CK * D * !SE * SI)	-0.00004	-0.00004	-0.00004
	RN	(CK * D * !SE * SI)	-0.00002	-0.00002	-0.00001
	RN	(CK * D * !SE * SI)	0.00197	0.00209	0.00245
	RN	(CK * D * !SE * !SI)	0.00271	0.00284	0.00320
	RN	(CK * D * !SE * !SI)	-0.00008	-0.00004	-0.00001
	RN	(CK * D * !SE * !SI)	-0.00006	-0.00002	-0.00001
	RN	(CK * D * !SE * !SI)	0.00197	0.00210	0.00245
	RN	(CK * !D * SE * SI)	0.00271	0.00284	0.00320
	RN	(CK * !D * SE * SI)	-0.00004	-0.00004	-0.00004
	RN	(CK * !D * SE * SI)	-0.00002	-0.00002	-0.00001
	RN	(CK * !D * SE * SI)	0.00197	0.00209	0.00245
	RN	(CK * !D * SE * !SI)	0.00271	0.00284	0.00320
	RN	(CK * !D * SE * !SI)	-0.00005	-0.00004	-0.00004
	RN	(CK * !D * SE * !SI)	-0.00002	-0.00002	-0.00001
	RN	(CK * !D * SE * !SI)	0.00197	0.00209	0.00245
	RN	(CK * !D * !SE * SI)	0.00271	0.00284	0.00320
	RN	(CK * !D * !SE * SI)	-0.00005	-0.00004	-0.00004
	RN	(CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00001
	RN	(CK * !D * !SE * SI)	0.00197	0.00209	0.00245
	RN	(CK * !D * !SE * !SI)	0.00271	0.00284	0.00320
	RN	(CK * !D * !SE * !SI)	-0.00005	-0.00004	-0.00004
	RN	(CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00001
	RN	(CK * !D * !SE * !SI)	0.00197	0.00209	0.00245
	RN	(!CK * D * SE * SI)	0.00249	0.00268	0.00331
	RN	(!CK * D * SE * SI)	-0.00016	-0.00011	-0.00008
	RN	(!CK * D * SE * SI)	0.00003	0.00006	0.00008
	RN	(!CK * D * SE * SI)	0.00159	0.00176	0.00240
	RN	(!CK * D * SE * !SI)	0.00212	0.00221	0.00256
	RN	(!CK * D * SE * !SI)	-0.00004	-0.00004	-0.00003
	RN	(!CK * D * SE * !SI)	0.00001	0.00002	0.00005
	RN	(!CK * D * SE * !SI)	0.00145	0.00156	0.00191
	RN	(!CK * D * !SE * SI)	0.00249	0.00268	0.00331
	RN	(!CK * D * !SE * SI)	-0.00016	-0.00011	-0.00008
	RN	(!CK * D * !SE * SI)	0.00003	0.00006	0.00008
	RN	(!CK * D * !SE * SI)	0.00157	0.00176	0.00240
	RN	(!CK * D * !SE * !SI)	0.00249	0.00268	0.00331
	RN	(!CK * D * !SE * !SI)	-0.00016	-0.00011	-0.00008
	RN	(!CK * D * !SE * !SI)	0.00003	0.00006	0.00008
	RN	(!CK * D * !SE * !SI)	0.00157	0.00176	0.00240
	RN	(!CK * !D * SE * SI)	0.00249	0.00268	0.00331
	RN	(!CK * !D * SE * SI)	-0.00016	-0.00011	-0.00008
	RN	(!CK * !D * SE * SI)	0.00003	0.00006	0.00008
	RN	(!CK * !D * SE * SI)	0.00159	0.00176	0.00240
	RN	(!CK * !D * SE * !SI)	0.00212	0.00221	0.00256
	RN	(!CK * !D * SE * !SI)	-0.00004	-0.00004	-0.00003
	RN	(!CK * !D * SE * !SI)	0.00001	0.00002	0.00005
	RN	(!CK * !D * SE * !SI)	0.00146	0.00156	0.00191
	RN	(!CK * !D * !SE * SI)	0.00212	0.00221	0.00256
	RN	(!CK * !D * !SE * SI)	-0.00004	-0.00004	-0.00003
	RN	(!CK * !D * !SE * SI)	0.00001	0.00002	0.00005
	RN	(!CK * !D * !SE * SI)	0.00145	0.00156	0.00191
	RN	(!CK * !D * !SE * !SI)	0.00212	0.00221	0.00256
	RN	(!CK * !D * !SE * !SI)	-0.00004	-0.00004	-0.00004
	RN	(!CK * !D * !SE * !SI)	0.00001	0.00002	0.00005
	RN	(!CK * !D * !SE * !SI)	0.00145	0.00156	0.00191

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFRX3H7R	CK	-	0.00255	0.00267	0.00299
	CK	-	0.00001	0.00002	0.00004
	CK	-	-0.00001	-0.00001	0.00000
	CK	-	0.00302	0.00313	0.00348

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7R	**(D * RN * SE * SI)**	0.00171	0.00184	0.00230
	(D * RN * SE * SI)	-0.00002	-0.00001	0.00000
	(D * RN * SE * SI)	0.00000	0.00000	0.00001
	(D * RN * SE * SI)	0.00242	0.00255	0.00301
	(D * RN * SE * !SI)	0.00173	0.00185	0.00231
	(D * RN * SE * !SI)	-0.00002	-0.00001	0.00000
	(D * RN * SE * !SI)	-0.00001	-0.00000	-0.00000
	(D * RN * SE * !SI)	0.00243	0.00256	0.00302
	(D * RN * !SE * SI)	0.00179	0.00192	0.00239
	(D * RN * !SE * SI)	-0.00002	-0.00001	-0.00000
	(D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * SI)	0.00250	0.00263	0.00310
	(D * RN * !SE * !SI)	0.00179	0.00192	0.00239
	(D * RN * !SE * !SI)	-0.00002	-0.00001	-0.00000
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * !SI)	0.00250	0.00263	0.00310
	(D * !RN * SE * SI)	0.00223	0.00235	0.00279
	(D * !RN * SE * SI)	0.00007	0.00008	0.00009
	(D * !RN * SE * SI)	-0.00010	-0.00009	-0.00007
	(D * !RN * SE * SI)	0.00315	0.00327	0.00372
	(D * !RN * SE * !SI)	0.00173	0.00186	0.00232
	(D * !RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(D * !RN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(D * !RN * SE * !SI)	0.00244	0.00256	0.00302
	(D * !RN * !SE * SI)	0.00231	0.00244	0.00288
	(D * !RN * !SE * SI)	0.00007	0.00008	0.00009
	(D * !RN * !SE * SI)	-0.00010	-0.00009	-0.00007
	(D * !RN * !SE * SI)	0.00323	0.00336	0.00380
	(D * !RN * !SE * !SI)	0.00231	0.00244	0.00288
	(D * !RN * !SE * !SI)	0.00007	0.00008	0.00008
	(D * !RN * !SE * !SI)	-0.00010	-0.00009	-0.00007
	(D * !RN * !SE * !SI)	0.00323	0.00336	0.00380
	(!D * RN * SE * SI)	0.00171	0.00184	0.00230
	(!D * RN * SE * SI)	-0.00002	-0.00001	0.00000
	(!D * RN * SE * SI)	0.00000	0.00000	0.00001
	(!D * RN * SE * SI)	0.00242	0.00255	0.00301
	(!D * RN * SE * !SI)	0.00173	0.00185	0.00231
	(!D * RN * SE * !SI)	-0.00002	-0.00001	0.00000
	(!D * RN * SE * !SI)	-0.00001	-0.00000	-0.00000
	(!D * RN * SE * !SI)	0.00243	0.00256	0.00302
	(!D * RN * !SE * SI)	0.00181	0.00194	0.00240
	(!D * RN * !SE * SI)	-0.00001	-0.00001	0.00000
	(!D * RN * !SE * SI)	-0.00001	-0.00000	-0.00000
	(!D * RN * !SE * SI)	0.00252	0.00265	0.00311
	(!D * RN * !SE * !SI)	0.00181	0.00194	0.00240
	(!D * RN * !SE * !SI)	-0.00001	-0.00001	0.00000
	(!D * RN * !SE * !SI)	-0.00001	-0.00000	-0.00000
	(!D * RN * !SE * !SI)	0.00252	0.00265	0.00311
	(!D * !RN * SE * SI)	0.00223	0.00235	0.00279
	(!D * !RN * SE * SI)	0.00007	0.00008	0.00009
	(!D * !RN * SE * SI)	-0.00010	-0.00009	-0.00007
	(!D * !RN * SE * SI)	0.00315	0.00327	0.00372
	(!D * !RN * SE * !SI)	0.00173	0.00186	0.00232
	(!D * !RN * SE * !SI)	-0.00002	-0.00001	-0.00001
	(!D * !RN * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!D * !RN * SE * !SI)	0.00244	0.00256	0.00302
	(!D * !RN * !SE * SI)	0.00181	0.00194	0.00240
	(!D * !RN * !SE * SI)	-0.00002	-0.00001	-0.00001
	(!D * !RN * !SE * SI)	-0.00001	-0.00000	-0.00000
	(!D * !RN * !SE * SI)	0.00252	0.00264	0.00311
	(!D * !RN * !SE * !SI)	0.00181	0.00194	0.00240
	(!D * !RN * !SE * !SI)	-0.00002	-0.00001	-0.00001
	(!D * !RN * !SE * !SI)	-0.00001	-0.00000	-0.00000
	(!D * !RN * !SE * !SI)	0.00252	0.00264	0.00311

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7R	**(D * RN * SE * SI)**	0.00396	0.00409	0.00456
	(D * RN * SE * SI)	0.00002	0.00003	0.00004
	(D * RN * SE * SI)	-0.00001	-0.00000	0.00000
	(D * RN * SE * SI)	0.00356	0.00369	0.00417
	(D * RN * SE * !SI)	0.00402	0.00418	0.00473
	(D * RN * SE * !SI)	0.00001	0.00002	0.00002
	(D * RN * SE * !SI)	0.00001	0.00003	0.00005
	(D * RN * SE * !SI)	0.00303	0.00319	0.00374
	(D * RN * !SE * SI)	0.00387	0.00401	0.00448
	(D * RN * !SE * SI)	0.00002	0.00003	0.00004
	(D * RN * !SE * SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * SI)	0.00347	0.00361	0.00408
	(D * RN * !SE * !SI)	0.00387	0.00401	0.00448
	(D * RN * !SE * !SI)	0.00002	0.00003	0.00004
	(D * RN * !SE * !SI)	0.00000	0.00000	0.00000
	(D * RN * !SE * !SI)	0.00347	0.00361	0.00408
	(D * !RN * SE * SI)	0.00339	0.00353	0.00401
	(D * !RN * SE * SI)	-0.00009	-0.00008	-0.00007
	(D * !RN * SE * SI)	0.00007	0.00009	0.00010
	(D * !RN * SE * SI)	0.00248	0.00262	0.00310
	(D * !RN * SE * !SI)	0.00248	0.00262	0.00312
	(D * !RN * SE * !SI)	0.00001	0.00001	0.00002
	(D * !RN * SE * !SI)	0.00000	0.00001	0.00001
	(D * !RN * SE * !SI)	0.00178	0.00192	0.00241
	(D * !RN * !SE * SI)	0.00331	0.00345	0.00393
	(D * !RN * !SE * SI)	-0.00009	-0.00008	-0.00007
	(D * !RN * !SE * SI)	0.00007	0.00009	0.00010
	(D * !RN * !SE * SI)	0.00240	0.00253	0.00302
	(D * !RN * !SE * !SI)	0.00331	0.00345	0.00393
	(D * !RN * !SE * !SI)	-0.00008	-0.00007	-0.00007
	(D * !RN * !SE * !SI)	0.00007	0.00009	0.00010
	(D * !RN * !SE * !SI)	0.00239	0.00253	0.00302
	(!D * RN * SE * SI)	0.00395	0.00409	0.00456
	(!D * RN * SE * SI)	0.00002	0.00003	0.00004
	(!D * RN * SE * SI)	-0.00001	-0.00000	0.00000
	(!D * RN * SE * SI)	0.00356	0.00369	0.00417
	(!D * RN * SE * !SI)	0.00402	0.00417	0.00473
	(!D * RN * SE * !SI)	0.00001	0.00002	0.00002
	(!D * RN * SE * !SI)	0.00001	0.00003	0.00004
	(!D * RN * SE * !SI)	0.00303	0.00319	0.00374
	(!D * RN * !SE * SI)	0.00394	0.00409	0.00464
	(!D * RN * !SE * SI)	0.00001	0.00002	0.00002
	(!D * RN * !SE * SI)	0.00001	0.00003	0.00005
	(!D * RN * !SE * SI)	0.00294	0.00310	0.00365
	(!D * RN * !SE * !SI)	0.00394	0.00409	0.00464
	(!D * RN * !SE * !SI)	0.00001	0.00002	0.00002
	(!D * RN * !SE * !SI)	0.00001	0.00003	0.00005
	(!D * RN * !SE * !SI)	0.00294	0.00310	0.00365
	(!D * !RN * SE * SI)	0.00339	0.00353	0.00401
	(!D * !RN * SE * SI)	-0.00009	-0.00008	-0.00007
	(!D * !RN * SE * SI)	0.00007	0.00009	0.00010
	(!D * !RN * SE * SI)	0.00248	0.00262	0.00310
	(!D * !RN * SE * !SI)	0.00248	0.00262	0.00312
	(!D * !RN * SE * !SI)	0.00001	0.00001	0.00002
	(!D * !RN * SE * !SI)	0.00000	0.00001	0.00001
	(!D * !RN * SE * !SI)	0.00178	0.00192	0.00241
	(!D * !RN * !SE * SI)	0.00240	0.00254	0.00304
	(!D * !RN * !SE * SI)	0.00001	0.00001	0.00002
	(!D * !RN * !SE * SI)	0.00000	0.00001	0.00001
	(!D * !RN * !SE * SI)	0.00169	0.00184	0.00233
	(!D * !RN * !SE * !SI)	0.00240	0.00254	0.00304
	(!D * !RN * !SE * !SI)	0.00001	0.00001	0.00002
	(!D * !RN * !SE * !SI)	0.00000	0.00001	0.00001
	(!D * !RN * !SE * !SI)	0.00169	0.00184	0.00233

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7R	**(CK * RN * SE * SI)**	-0.00012	-0.00012	-0.00010
	(CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * SI)	0.00027	0.00028	0.00028
	(CK * RN * SE * !SI)	-0.00015	-0.00014	-0.00012
	(CK * RN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * !SI)	0.00025	0.00026	0.00026
	(CK * RN * !SE * SI)	0.00039	0.00045	0.00067
	(CK * RN * !SE * SI)	0.00014	0.00015	0.00016
	(CK * RN * !SE * SI)	-0.00012	-0.00012	-0.00011
	(CK * RN * !SE * SI)	0.00139	0.00145	0.00167
	(CK * RN * !SE * !SI)	0.00039	0.00045	0.00067
	(CK * RN * !SE * !SI)	0.00015	0.00015	0.00016
	(CK * RN * !SE * !SI)	-0.00012	-0.00012	-0.00011
	(CK * RN * !SE * !SI)	0.00139	0.00145	0.00167
	(CK * !RN * SE * SI)	-0.00012	-0.00012	-0.00010
	(CK * !RN * SE * SI)	-0.00002	-0.00001	-0.00001
	(CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * SI)	0.00027	0.00028	0.00028
	(CK * !RN * SE * !SI)	-0.00015	-0.00014	-0.00012
	(CK * !RN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !RN * SE * !SI)	0.00001	0.00001	0.00001
	(CK * !RN * SE * !SI)	0.00025	0.00026	0.00026
	(CK * !RN * !SE * SI)	0.00039	0.00045	0.00068
	(CK * !RN * !SE * SI)	0.00015	0.00015	0.00015
	(CK * !RN * !SE * SI)	-0.00012	-0.00012	-0.00011
	(CK * !RN * !SE * SI)	0.00139	0.00145	0.00167
	(CK * !RN * !SE * !SI)	0.00039	0.00045	0.00068
	(CK * !RN * !SE * !SI)	0.00015	0.00015	0.00015
	(CK * !RN * !SE * !SI)	-0.00012	-0.00012	-0.00011
	(CK * !RN * !SE * !SI)	0.00139	0.00145	0.00167
	(!CK * RN * SE * SI)	-0.00012	-0.00012	-0.00010
	(!CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * RN * SE * SI)	0.00027	0.00028	0.00028
	(!CK * RN * SE * !SI)	-0.00015	-0.00014	-0.00012
	(!CK * RN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * RN * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * RN * SE * !SI)	0.00025	0.00026	0.00026
	(!CK * RN * !SE * SI)	0.00193	0.00199	0.00222
	(!CK * RN * !SE * SI)	0.00013	0.00013	0.00014
	(!CK * RN * !SE * SI)	-0.00014	-0.00012	-0.00011
	(!CK * RN * !SE * SI)	0.00320	0.00326	0.00348
	(!CK * RN * !SE * !SI)	0.00193	0.00199	0.00222
	(!CK * RN * !SE * !SI)	0.00013	0.00013	0.00014
	(!CK * RN * !SE * !SI)	-0.00014	-0.00012	-0.00011
	(!CK * RN * !SE * !SI)	0.00320	0.00326	0.00348
	(!CK * !RN * SE * SI)	-0.00012	-0.00012	-0.00010
	(!CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * SI)	0.00027	0.00028	0.00028
	(!CK * !RN * SE * !SI)	-0.00015	-0.00014	-0.00012
	(!CK * !RN * SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * !RN * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * !SI)	0.00025	0.00026	0.00026
	(!CK * !RN * !SE * SI)	0.00142	0.00148	0.00171
	(!CK * !RN * !SE * SI)	-0.00001	-0.00000	0.00000
	(!CK * !RN * !SE * SI)	0.00000	0.00001	0.00002
	(!CK * !RN * !SE * SI)	0.00209	0.00215	0.00238
	(!CK * !RN * !SE * !SI)	0.00142	0.00148	0.00171
	(!CK * !RN * !SE * !SI)	-0.00001	-0.00000	0.00000
	(!CK * !RN * !SE * !SI)	0.00000	0.00001	0.00002
	(!CK * !RN * !SE * !SI)	0.00209	0.00215	0.00238

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7R	**(CK * RN * SE * SI)**	0.00013	0.00013	0.00013
	(CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * SI)	-0.00027	-0.00027	-0.00026
	(CK * RN * SE * !SI)	0.00015	0.00015	0.00016
	(CK * RN * SE * !SI)	0.00002	0.00002	0.00002
	(CK * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * RN * SE * !SI)	-0.00025	-0.00024	-0.00023
	(CK * RN * !SE * SI)	0.00132	0.00138	0.00163
	(CK * RN * !SE * SI)	-0.00016	-0.00015	-0.00014
	(CK * RN * !SE * SI)	0.00011	0.00012	0.00012
	(CK * RN * !SE * SI)	0.00032	0.00038	0.00063
	(CK * RN * !SE * !SI)	0.00132	0.00138	0.00163
	(CK * RN * !SE * !SI)	-0.00016	-0.00015	-0.00015
	(CK * RN * !SE * !SI)	0.00011	0.00012	0.00012
	(CK * RN * !SE * !SI)	0.00031	0.00038	0.00063
	(CK * !RN * SE * SI)	0.00013	0.00013	0.00013
	(CK * !RN * SE * SI)	0.00001	0.00001	0.00002
	(CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * SI)	-0.00027	-0.00027	-0.00026
	(CK * !RN * SE * !SI)	0.00015	0.00015	0.00016
	(CK * !RN * SE * !SI)	0.00002	0.00002	0.00002
	(CK * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * !RN * SE * !SI)	-0.00025	-0.00024	-0.00023
	(CK * !RN * !SE * SI)	0.00132	0.00138	0.00163
	(CK * !RN * !SE * SI)	-0.00015	-0.00015	-0.00015
	(CK * !RN * !SE * SI)	0.00011	0.00012	0.00013
	(CK * !RN * !SE * SI)	0.00031	0.00037	0.00062
	(CK * !RN * !SE * !SI)	0.00132	0.00138	0.00163
	(CK * !RN * !SE * !SI)	-0.00015	-0.00015	-0.00015
	(CK * !RN * !SE * !SI)	0.00011	0.00012	0.00013
	(CK * !RN * !SE * !SI)	0.00031	0.00037	0.00062
	(!CK * RN * SE * SI)	0.00013	0.00013	0.00013
	(!CK * RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * RN * SE * SI)	-0.00027	-0.00026	-0.00026
	(!CK * RN * SE * !SI)	0.00015	0.00015	0.00016
	(!CK * RN * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CK * RN * SE * !SI)	-0.00025	-0.00024	-0.00023
	(!CK * RN * !SE * SI)	0.00292	0.00299	0.00323
	(!CK * RN * !SE * SI)	-0.00014	-0.00013	-0.00013
	(!CK * RN * !SE * SI)	0.00011	0.00012	0.00014
	(!CK * RN * !SE * SI)	0.00166	0.00173	0.00197
	(!CK * RN * !SE * !SI)	0.00292	0.00299	0.00323
	(!CK * RN * !SE * !SI)	-0.00014	-0.00013	-0.00013
	(!CK * RN * !SE * !SI)	0.00011	0.00012	0.00014
	(!CK * RN * !SE * !SI)	0.00166	0.00173	0.00197
	(!CK * !RN * SE * SI)	0.00013	0.00013	0.00013
	(!CK * !RN * SE * SI)	0.00001	0.00001	0.00001
	(!CK * !RN * SE * SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * SI)	-0.00027	-0.00026	-0.00026
	(!CK * !RN * SE * !SI)	0.00015	0.00015	0.00016
	(!CK * !RN * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !RN * SE * !SI)	-0.00001	-0.00001	-0.00001
	(!CK * !RN * SE * !SI)	-0.00025	-0.00024	-0.00023
	(!CK * !RN * !SE * SI)	0.00184	0.00191	0.00215
	(!CK * !RN * !SE * SI)	0.00000	0.00000	0.00001
	(!CK * !RN * !SE * SI)	-0.00001	-0.00001	0.00000
	(!CK * !RN * !SE * SI)	0.00117	0.00123	0.00148
	(!CK * !RN * !SE * !SI)	0.00184	0.00190	0.00215
	(!CK * !RN * !SE * !SI)	0.00000	0.00000	0.00001
	(!CK * !RN * !SE * !SI)	-0.00002	-0.00001	0.00000
	(!CK * !RN * !SE * !SI)	0.00116	0.00123	0.00148

Passive power(pJ) for RN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7R	**(CK * D * SE * SI)**	-0.00061	-0.00060	-0.00060
	(CK * D * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * D * SE * SI)	0.00001	0.00004	0.00005
	(CK * D * SE * SI)	0.00043	0.00044	0.00046
	(CK * D * SE * !SI)	-0.00061	-0.00060	-0.00060
	(CK * D * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * D * SE * !SI)	0.00002	0.00004	0.00005
	(CK * D * SE * !SI)	0.00043	0.00044	0.00046
	(CK * D * !SE * SI)	-0.00061	-0.00060	-0.00060
	(CK * D * !SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * D * !SE * SI)	0.00001	0.00004	0.00005
	(CK * D * !SE * SI)	0.00043	0.00044	0.00046
	(CK * D * !SE * !SI)	-0.00061	-0.00060	-0.00060
	(CK * D * !SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * D * !SE * !SI)	0.00001	0.00004	0.00005
	(CK * D * !SE * !SI)	0.00043	0.00044	0.00046
	(CK * !D * SE * SI)	-0.00061	-0.00060	-0.00060
	(CK * !D * SE * SI)	-0.00001	-0.00001	-0.00001
	(CK * !D * SE * SI)	0.00001	0.00004	0.00005
	(CK * !D * SE * SI)	0.00043	0.00044	0.00046
	(CK * !D * SE * !SI)	-0.00061	-0.00060	-0.00060
	(CK * !D * SE * !SI)	-0.00001	-0.00001	-0.00001
	(CK * !D * SE * !SI)	0.00002	0.00004	0.00005
	(CK * !D * SE * !SI)	0.00043	0.00044	0.00046
	(CK * !D * !SE * SI)	-0.00061	-0.00060	-0.00060
	(CK * !D * !SE * SI)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SE * SI)	0.00002	0.00004	0.00005
	(CK * !D * !SE * SI)	0.00043	0.00044	0.00046
	(CK * !D * !SE * !SI)	-0.00061	-0.00060	-0.00060
	(CK * !D * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SE * !SI)	0.00002	0.00004	0.00005
	(CK * !D * !SE * !SI)	0.00043	0.00044	0.00046
	(!CK * D * SE * SI)	-0.00008	0.00006	0.00056
	(!CK * D * SE * SI)	0.00012	0.00013	0.00014
	(!CK * D * SE * SI)	-0.00006	-0.00006	-0.00005
	(!CK * D * SE * SI)	0.00148	0.00162	0.00213
	(!CK * D * SE * !SI)	-0.00060	-0.00060	-0.00059
	(!CK * D * SE * !SI)	-0.00001	-0.00001	0.00000
	(!CK * D * SE * !SI)	0.00003	0.00004	0.00005
	(!CK * D * SE * !SI)	0.00043	0.00045	0.00046
	(!CK * D * !SE * SI)	-0.00008	0.00006	0.00056
	(!CK * D * !SE * SI)	0.00012	0.00013	0.00013
	(!CK * D * !SE * SI)	-0.00006	-0.00006	-0.00005
	(!CK * D * !SE * SI)	0.00149	0.00162	0.00213
	(!CK * D * !SE * !SI)	-0.00008	0.00006	0.00056
	(!CK * D * !SE * !SI)	0.00012	0.00013	0.00014
	(!CK * D * !SE * !SI)	-0.00006	-0.00006	-0.00005
	(!CK * D * !SE * !SI)	0.00149	0.00162	0.00213
	(!CK * !D * SE * SI)	-0.00008	0.00006	0.00056
	(!CK * !D * SE * SI)	0.00012	0.00013	0.00014
	(!CK * !D * SE * SI)	-0.00006	-0.00006	-0.00005
	(!CK * !D * SE * SI)	0.00148	0.00162	0.00213
	(!CK * !D * SE * !SI)	-0.00060	-0.00060	-0.00059
	(!CK * !D * SE * !SI)	-0.00001	-0.00001	0.00000
	(!CK * !D * SE * !SI)	0.00003	0.00004	0.00005
	(!CK * !D * SE * !SI)	0.00043	0.00045	0.00046
	(!CK * !D * !SE * SI)	-0.00060	-0.00060	-0.00059
	(!CK * !D * !SE * SI)	-0.00001	-0.00001	0.00000
	(!CK * !D * !SE * SI)	0.00003	0.00004	0.00005
	(!CK * !D * !SE * SI)	0.00043	0.00045	0.00046
	(!CK * !D * !SE * !SI)	-0.00060	-0.00060	-0.00059
	(!CK * !D * !SE * !SI)	-0.00001	-0.00001	0.00000
	(!CK * !D * !SE * !SI)	0.00003	0.00004	0.00005
	(!CK * !D * !SE * !SI)	0.00043	0.00045	0.00046

Passive power(pJ) for RN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7R	**(CK * D * SE * SI)**	0.00060	0.00061	0.00061
	(CK * D * SE * SI)	0.00001	0.00001	0.00001
	(CK * D * SE * SI)	-0.00005	-0.00003	-0.00001
	(CK * D * SE * SI)	-0.00044	-0.00043	-0.00043
	(CK * D * SE * !SI)	0.00060	0.00061	0.00061
	(CK * D * SE * !SI)	0.00001	0.00001	0.00001
	(CK * D * SE * !SI)	-0.00005	-0.00004	-0.00002
	(CK * D * SE * !SI)	-0.00044	-0.00043	-0.00043
	(CK * D * !SE * SI)	0.00060	0.00061	0.00061
	(CK * D * !SE * SI)	0.00001	0.00001	0.00001
	(CK * D * !SE * SI)	-0.00005	-0.00003	-0.00001
	(CK * D * !SE * SI)	-0.00044	-0.00043	-0.00043
	(CK * D * !SE * !SI)	0.00060	0.00061	0.00061
	(CK * D * !SE * !SI)	0.00001	0.00001	0.00001
	(CK * D * !SE * !SI)	-0.00005	-0.00003	-0.00001
	(CK * D * !SE * !SI)	-0.00044	-0.00043	-0.00043
	(CK * !D * SE * SI)	0.00060	0.00061	0.00061
	(CK * !D * SE * SI)	0.00001	0.00001	0.00001
	(CK * !D * SE * SI)	-0.00005	-0.00003	-0.00001
	(CK * !D * SE * SI)	-0.00044	-0.00043	-0.00043
	(CK * !D * SE * !SI)	0.00060	0.00061	0.00061
	(CK * !D * SE * !SI)	0.00001	0.00001	0.00001
	(CK * !D * SE * !SI)	-0.00005	-0.00004	-0.00002
	(CK * !D * SE * !SI)	-0.00044	-0.00043	-0.00043
	(CK * !D * !SE * SI)	0.00060	0.00061	0.00061
	(CK * !D * !SE * SI)	0.00001	0.00001	0.00001
	(CK * !D * !SE * SI)	-0.00005	-0.00004	-0.00002
	(CK * !D * !SE * SI)	-0.00044	-0.00043	-0.00043
	(CK * !D * !SE * !SI)	0.00060	0.00061	0.00061
	(CK * !D * !SE * !SI)	0.00001	0.00001	0.00001
	(CK * !D * !SE * !SI)	-0.00005	-0.00004	-0.00002
	(CK * !D * !SE * !SI)	-0.00044	-0.00043	-0.00043
	(!CK * D * SE * SI)	0.00136	0.00152	0.00210
	(!CK * D * SE * SI)	-0.00014	-0.00013	-0.00012
	(!CK * D * SE * SI)	0.00005	0.00006	0.00006
	(!CK * D * SE * SI)	-0.00020	-0.00004	0.00054
	(!CK * D * SE * !SI)	0.00060	0.00060	0.00060
	(!CK * D * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * D * SE * !SI)	-0.00005	-0.00004	-0.00003
	(!CK * D * SE * !SI)	-0.00045	-0.00044	-0.00043
	(!CK * D * !SE * SI)	0.00136	0.00152	0.00210
	(!CK * D * !SE * SI)	-0.00013	-0.00013	-0.00012
	(!CK * D * !SE * SI)	0.00005	0.00006	0.00006
	(!CK * D * !SE * SI)	-0.00020	-0.00004	0.00054
	(!CK * D * !SE * !SI)	0.00136	0.00152	0.00210
	(!CK * D * !SE * !SI)	-0.00014	-0.00013	-0.00012
	(!CK * D * !SE * !SI)	0.00005	0.00006	0.00006
	(!CK * D * !SE * !SI)	-0.00020	-0.00004	0.00054
	(!CK * !D * SE * SI)	0.00136	0.00152	0.00210
	(!CK * !D * SE * SI)	-0.00014	-0.00013	-0.00012
	(!CK * !D * SE * SI)	0.00005	0.00006	0.00006
	(!CK * !D * SE * SI)	-0.00020	-0.00004	0.00054
	(!CK * !D * SE * !SI)	0.00060	0.00060	0.00060
	(!CK * !D * SE * !SI)	0.00001	0.00001	0.00001
	(!CK * !D * SE * !SI)	-0.00005	-0.00004	-0.00003
	(!CK * !D * SE * !SI)	-0.00045	-0.00044	-0.00043
	(!CK * !D * !SE * SI)	0.00060	0.00060	0.00060
	(!CK * !D * !SE * SI)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * SI)	-0.00005	-0.00004	-0.00003
	(!CK * !D * !SE * SI)	-0.00045	-0.00044	-0.00043
	(!CK * !D * !SE * !SI)	0.00060	0.00060	0.00060
	(!CK * !D * !SE * !SI)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * !SI)	-0.00005	-0.00004	-0.00003
	(!CK * !D * !SE * !SI)	-0.00045	-0.00044	-0.00043

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7R	**(CK * D * RN * SI)**	-0.00014	0.00002	0.00060
	(CK * D * RN * SI)	0.00004	0.00004	0.00004
	(CK * D * RN * SI)	-0.00003	-0.00002	-0.00001
	(CK * D * RN * SI)	0.00104	0.00121	0.00179
	(CK * D * RN * !SI)	0.00128	0.00144	0.00199
	(CK * D * RN * !SI)	-0.00008	-0.00008	-0.00007
	(CK * D * RN * !SI)	0.00004	0.00006	0.00008
	(CK * D * RN * !SI)	0.00204	0.00219	0.00274
	(CK * D * !RN * SI)	-0.00014	0.00002	0.00060
	(CK * D * !RN * SI)	0.00003	0.00003	0.00004
	(CK * D * !RN * SI)	-0.00004	-0.00003	-0.00002
	(CK * D * !RN * SI)	0.00104	0.00121	0.00180
	(CK * D * !RN * !SI)	0.00128	0.00143	0.00198
	(CK * D * !RN * !SI)	-0.00008	-0.00008	-0.00007
	(CK * D * !RN * !SI)	0.00004	0.00006	0.00007
	(CK * D * !RN * !SI)	0.00203	0.00219	0.00273
	(CK * !D * RN * SI)	-0.00005	0.00022	0.00125
	(CK * !D * RN * SI)	0.00014	0.00015	0.00016
	(CK * !D * RN * SI)	-0.00012	-0.00011	-0.00011
	(CK * !D * RN * SI)	0.00157	0.00186	0.00289
	(CK * !D * RN * !SI)	-0.00005	0.00012	0.00071
	(CK * !D * RN * !SI)	0.00003	0.00004	0.00005
	(CK * !D * RN * !SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * RN * !SI)	0.00114	0.00131	0.00191
	(CK * !D * !RN * SI)	-0.00006	0.00023	0.00126
	(CK * !D * !RN * SI)	0.00014	0.00015	0.00015
	(CK * !D * !RN * SI)	-0.00012	-0.00012	-0.00011
	(CK * !D * !RN * SI)	0.00157	0.00186	0.00289
	(CK * !D * !RN * !SI)	-0.00005	0.00012	0.00071
	(CK * !D * !RN * !SI)	0.00003	0.00004	0.00004
	(CK * !D * !RN * !SI)	-0.00003	-0.00003	-0.00002
	(CK * !D * !RN * !SI)	0.00114	0.00131	0.00191
	(!CK * D * RN * SI)	-0.00006	0.00010	0.00069
	(!CK * D * RN * SI)	0.00003	0.00003	0.00004
	(!CK * D * RN * SI)	-0.00003	-0.00002	-0.00001
	(!CK * D * RN * SI)	0.00113	0.00129	0.00188
	(!CK * D * RN * !SI)	0.00296	0.00312	0.00367
	(!CK * D * RN * !SI)	-0.00006	-0.00006	-0.00005
	(!CK * D * RN * !SI)	0.00004	0.00007	0.00008
	(!CK * D * RN * !SI)	0.00347	0.00362	0.00416
	(!CK * D * !RN * SI)	-0.00006	0.00010	0.00069
	(!CK * D * !RN * SI)	0.00003	0.00004	0.00004
	(!CK * D * !RN * SI)	-0.00003	-0.00002	-0.00001
	(!CK * D * !RN * SI)	0.00113	0.00129	0.00188
	(!CK * D * !RN * !SI)	0.00188	0.00204	0.00259
	(!CK * D * !RN * !SI)	0.00007	0.00008	0.00009
	(!CK * D * !RN * !SI)	-0.00008	-0.00006	-0.00005
	(!CK * D * !RN * !SI)	0.00297	0.00313	0.00367
	(!CK * !D * RN * SI)	0.00155	0.00185	0.00288
	(!CK * !D * RN * SI)	0.00011	0.00012	0.00014
	(!CK * !D * RN * SI)	-0.00015	-0.00012	-0.00011
	(!CK * !D * RN * SI)	0.00346	0.00375	0.00477
	(!CK * !D * RN * !SI)	0.00003	0.00020	0.00080
	(!CK * !D * RN * !SI)	0.00003	0.00003	0.00004
	(!CK * !D * RN * !SI)	-0.00003	-0.00003	-0.00002
	(!CK * !D * RN * !SI)	0.00122	0.00139	0.00199
	(!CK * !D * !RN * SI)	0.00104	0.00134	0.00237
	(!CK * !D * !RN * SI)	-0.00002	-0.00001	0.00000
	(!CK * !D * !RN * SI)	0.00001	0.00002	0.00004
	(!CK * !D * !RN * SI)	0.00236	0.00264	0.00368
	(!CK * !D * !RN * !SI)	0.00003	0.00020	0.00080
	(!CK * !D * !RN * !SI)	0.00003	0.00003	0.00004
	(!CK * !D * !RN * !SI)	-0.00003	-0.00002	-0.00001
	(!CK * !D * !RN * !SI)	0.00122	0.00139	0.00199

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7R	**(CK * D * RN * SI)**	0.00114	0.00133	0.00197
	(CK * D * RN * SI)	-0.00004	-0.00003	-0.00003
	(CK * D * RN * SI)	0.00001	0.00002	0.00003
	(CK * D * RN * SI)	-0.00004	0.00014	0.00078
	(CK * D * RN * !SI)	0.00165	0.00185	0.00248
	(CK * D * RN * !SI)	0.00007	0.00008	0.00009
	(CK * D * RN * !SI)	-0.00006	-0.00006	-0.00004
	(CK * D * RN * !SI)	0.00091	0.00109	0.00174
	(CK * D * !RN * SI)	0.00114	0.00133	0.00197
	(CK * D * !RN * SI)	-0.00003	-0.00003	-0.00002
	(CK * D * !RN * SI)	0.00002	0.00003	0.00004
	(CK * D * !RN * SI)	-0.00004	0.00014	0.00078
	(CK * D * !RN * !SI)	0.00166	0.00185	0.00249
	(CK * D * !RN * !SI)	0.00007	0.00008	0.00009
	(CK * D * !RN * !SI)	-0.00007	-0.00006	-0.00004
	(CK * D * !RN * !SI)	0.00090	0.00109	0.00174
	(CK * !D * RN * SI)	0.00191	0.00222	0.00332
	(CK * !D * RN * SI)	-0.00015	-0.00015	-0.00014
	(CK * !D * RN * SI)	0.00011	0.00012	0.00013
	(CK * !D * RN * SI)	0.00028	0.00059	0.00169
	(CK * !D * RN * !SI)	0.00104	0.00122	0.00186
	(CK * !D * RN * !SI)	-0.00004	-0.00003	-0.00002
	(CK * !D * RN * !SI)	0.00002	0.00003	0.00003
	(CK * !D * RN * !SI)	-0.00016	0.00003	0.00066
	(CK * !D * !RN * SI)	0.00191	0.00222	0.00332
	(CK * !D * !RN * SI)	-0.00015	-0.00015	-0.00014
	(CK * !D * !RN * SI)	0.00011	0.00012	0.00013
	(CK * !D * !RN * SI)	0.00028	0.00059	0.00168
	(CK * !D * !RN * !SI)	0.00104	0.00122	0.00186
	(CK * !D * !RN * !SI)	-0.00004	-0.00003	-0.00003
	(CK * !D * !RN * !SI)	0.00002	0.00003	0.00003
	(CK * !D * !RN * !SI)	-0.00016	0.00003	0.00066
	(!CK * D * RN * SI)	0.00106	0.00124	0.00188
	(!CK * D * RN * SI)	-0.00003	-0.00003	-0.00003
	(!CK * D * RN * SI)	0.00001	0.00002	0.00003
	(!CK * D * RN * SI)	-0.00012	0.00006	0.00069
	(!CK * D * RN * !SI)	0.00313	0.00331	0.00394
	(!CK * D * RN * !SI)	0.00005	0.00006	0.00007
	(!CK * D * RN * !SI)	-0.00008	-0.00007	-0.00004
	(!CK * D * RN * !SI)	0.00262	0.00282	0.00346
	(!CK * D * !RN * SI)	0.00106	0.00124	0.00188
	(!CK * D * !RN * SI)	-0.00003	-0.00003	-0.00003
	(!CK * D * !RN * SI)	0.00001	0.00002	0.00003
	(!CK * D * !RN * SI)	-0.00012	0.00006	0.00069
	(!CK * D * !RN * !SI)	0.00261	0.00280	0.00343
	(!CK * D * !RN * !SI)	-0.00009	-0.00008	-0.00007
	(!CK * D * !RN * !SI)	0.00005	0.00006	0.00008
	(!CK * D * !RN * !SI)	0.00154	0.00172	0.00236
	(!CK * !D * RN * SI)	0.00343	0.00374	0.00484
	(!CK * !D * RN * SI)	-0.00013	-0.00012	-0.00011
	(!CK * !D * RN * SI)	0.00011	0.00012	0.00015
	(!CK * !D * RN * SI)	0.00155	0.00186	0.00295
	(!CK * !D * RN * !SI)	0.00096	0.00114	0.00177
	(!CK * !D * RN * !SI)	-0.00004	-0.00003	-0.00003
	(!CK * !D * RN * !SI)	0.00002	0.00003	0.00003
	(!CK * !D * RN * !SI)	-0.00024	-0.00006	0.00058
	(!CK * !D * !RN * SI)	0.00234	0.00266	0.00376
	(!CK * !D * !RN * SI)	0.00000	0.00001	0.00003
	(!CK * !D * !RN * SI)	-0.00003	-0.00002	-0.00001
	(!CK * !D * !RN * SI)	0.00105	0.00137	0.00246
	(!CK * !D * !RN * !SI)	0.00096	0.00114	0.00177
	(!CK * !D * !RN * !SI)	-0.00004	-0.00003	-0.00003
	(!CK * !D * !RN * !SI)	0.00002	0.00003	0.00003
	(!CK * !D * !RN * !SI)	-0.00024	-0.00006	0.00058

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFRX3H7R	**(CK * D * RN * SE)**	0.00010	0.00015	0.00033
	(CK * D * RN * SE)	0.00014	0.00014	0.00015
	(CK * D * RN * SE)	-0.00011	-0.00011	-0.00011
	(CK * D * RN * SE)	0.00102	0.00107	0.00125
	(CK * D * RN * !SE)	-0.00016	-0.00015	-0.00014
	(CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * RN * !SE)	0.00019	0.00019	0.00020
	(CK * D * !RN * SE)	0.00010	0.00015	0.00034
	(CK * D * !RN * SE)	0.00014	0.00014	0.00014
	(CK * D * !RN * SE)	-0.00012	-0.00011	-0.00011
	(CK * D * !RN * SE)	0.00102	0.00107	0.00125
	(CK * D * !RN * !SE)	-0.00016	-0.00015	-0.00014
	(CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * !RN * !SE)	0.00019	0.00019	0.00020
	(CK * !D * RN * SE)	0.00010	0.00015	0.00034
	(CK * !D * RN * SE)	0.00014	0.00014	0.00015
	(CK * !D * RN * SE)	-0.00012	-0.00011	-0.00011
	(CK * !D * RN * SE)	0.00102	0.00107	0.00125
	(CK * !D * RN * !SE)	-0.00016	-0.00015	-0.00014
	(CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * RN * !SE)	0.00020	0.00020	0.00020
	(CK * !D * !RN * SE)	0.00011	0.00015	0.00034
	(CK * !D * !RN * SE)	0.00013	0.00014	0.00014
	(CK * !D * !RN * SE)	-0.00012	-0.00012	-0.00011
	(CK * !D * !RN * SE)	0.00102	0.00107	0.00126
	(CK * !D * !RN * !SE)	-0.00016	-0.00015	-0.00014
	(CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * !RN * !SE)	0.00020	0.00020	0.00020
	(!CK * D * RN * SE)	0.00164	0.00169	0.00188
	(!CK * D * RN * SE)	0.00011	0.00012	0.00012
	(!CK * D * RN * SE)	-0.00012	-0.00012	-0.00010
	(!CK * D * RN * SE)	0.00283	0.00287	0.00306
	(!CK * D * RN * !SE)	-0.00016	-0.00015	-0.00014
	(!CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * RN * !SE)	0.00019	0.00019	0.00020
	(!CK * D * !RN * SE)	0.00113	0.00118	0.00137
	(!CK * D * !RN * SE)	-0.00001	-0.00001	-0.00000
	(!CK * D * !RN * SE)	0.00001	0.00002	0.00002
	(!CK * D * !RN * SE)	0.00172	0.00177	0.00196
	(!CK * D * !RN * !SE)	-0.00016	-0.00015	-0.00014
	(!CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * !RN * !SE)	0.00019	0.00019	0.00020
	(!CK * !D * RN * SE)	0.00164	0.00170	0.00189
	(!CK * !D * RN * SE)	0.00011	0.00012	0.00012
	(!CK * !D * RN * SE)	-0.00013	-0.00012	-0.00010
	(!CK * !D * RN * SE)	0.00283	0.00287	0.00306
	(!CK * !D * RN * !SE)	-0.00016	-0.00015	-0.00014
	(!CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * RN * !SE)	0.00020	0.00020	0.00020
	(!CK * !D * !RN * SE)	0.00113	0.00118	0.00137
	(!CK * !D * !RN * SE)	-0.00002	-0.00001	-0.00001
	(!CK * !D * !RN * SE)	0.00001	0.00001	0.00002
	(!CK * !D * !RN * SE)	0.00172	0.00177	0.00196
	(!CK * !D * !RN * !SE)	-0.00016	-0.00015	-0.00014
	(!CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * !RN * !SE)	0.00020	0.00020	0.00020

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

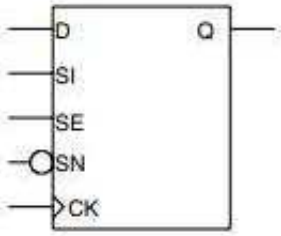
SDFFRX3H7R	**(CK * D * RN * SE)**	0.00155	0.00160	0.00180
	(CK * D * RN * SE)	-0.00015	-0.00014	-0.00014
	(CK * D * RN * SE)	0.00011	0.00011	0.00011
	(CK * D * RN * SE)	0.00063	0.00068	0.00089
	(CK * D * RN * !SE)	0.00016	0.00016	0.00016
	(CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * RN * !SE)	-0.00019	-0.00018	-0.00018
	(CK * D * !RN * SE)	0.00155	0.00160	0.00180
	(CK * D * !RN * SE)	-0.00014	-0.00014	-0.00014
	(CK * D * !RN * SE)	0.00011	0.00012	0.00012
	(CK * D * !RN * SE)	0.00062	0.00068	0.00088
	(CK * D * !RN * !SE)	0.00016	0.00016	0.00016
	(CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * D * !RN * !SE)	-0.00019	-0.00018	-0.00018
	(CK * !D * RN * SE)	0.00154	0.00159	0.00179
	(CK * !D * RN * SE)	-0.00015	-0.00014	-0.00014
	(CK * !D * RN * SE)	0.00011	0.00011	0.00012
	(CK * !D * RN * SE)	0.00063	0.00068	0.00089
	(CK * !D * RN * !SE)	0.00016	0.00016	0.00017
	(CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * RN * !SE)	-0.00019	-0.00018	-0.00017
	(CK * !D * !RN * SE)	0.00154	0.00159	0.00179
	(CK * !D * !RN * SE)	-0.00014	-0.00014	-0.00013
	(CK * !D * !RN * SE)	0.00011	0.00012	0.00012
	(CK * !D * !RN * SE)	0.00062	0.00068	0.00088
	(CK * !D * !RN * !SE)	0.00016	0.00016	0.00017
	(CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(CK * !D * !RN * !SE)	-0.00019	-0.00018	-0.00017
	(!CK * D * RN * SE)	0.00314	0.00320	0.00340
	(!CK * D * RN * SE)	-0.00012	-0.00012	-0.00011
	(!CK * D * RN * SE)	0.00010	0.00012	0.00013
	(!CK * D * RN * SE)	0.00198	0.00203	0.00224
	(!CK * D * RN * !SE)	0.00016	0.00016	0.00016
	(!CK * D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * RN * !SE)	-0.00019	-0.00018	-0.00018
	(!CK * D * !RN * SE)	0.00207	0.00212	0.00233
	(!CK * D * !RN * SE)	0.00000	0.00001	0.00001
	(!CK * D * !RN * SE)	-0.00002	-0.00002	-0.00001
	(!CK * D * !RN * SE)	0.00149	0.00154	0.00175
	(!CK * D * !RN * !SE)	0.00016	0.00016	0.00016
	(!CK * D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * D * !RN * !SE)	-0.00019	-0.00018	-0.00018
	(!CK * !D * RN * SE)	0.00314	0.00320	0.00340
	(!CK * !D * RN * SE)	-0.00012	-0.00012	-0.00011
	(!CK * !D * RN * SE)	0.00010	0.00012	0.00013
	(!CK * !D * RN * SE)	0.00198	0.00203	0.00223
	(!CK * !D * RN * !SE)	0.00016	0.00016	0.00017
	(!CK * !D * RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * RN * !SE)	-0.00019	-0.00018	-0.00017
	(!CK * !D * !RN * SE)	0.00207	0.00212	0.00232
	(!CK * !D * !RN * SE)	0.00001	0.00001	0.00002
	(!CK * !D * !RN * SE)	-0.00002	-0.00001	-0.00001
	(!CK * !D * !RN * SE)	0.00148	0.00154	0.00174
	(!CK * !D * !RN * !SE)	0.00016	0.00016	0.00017
	(!CK * !D * !RN * !SE)	0.00001	0.00001	0.00001
	(!CK * !D * !RN * !SE)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !RN * !SE)	-0.00019	-0.00018	-0.00017

SDFFSQX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFSQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low set (SN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	**D**	**SE**	**SI**	**SN**	**Q**
R	**0**	**0**	**x**	**1**	**0**
R	**x**	**1**	**0**	**1**	**0**
R	**x**	**1**	**1**	**1**	**1**
R	**1**	**0**	**x**	**1**	**1**
x	**x**	**x**	**x**	**0**	**1**
x	**x**	**x**	**x**	**1**	**IQ**

Footprint

Cell Name	Area
SDFFSQX1H7R	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	SE	SI	SN	Q
SDFFSQX1H7R	0.00084	0.00066	0.00163	0.00071	0.00072	0.05764

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSQX1H7R	0.00000	1.02823	1.35139

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX1H7R	CK->Q (RR)	(D * SE * SN)	0.09747	0.25235	0.61484
	CK->Q (RR)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.09753	0.25235	0.61493
	CK->Q (RR)	(!SE * !SI * SN)	0.09753	0.25235	0.61479
	CK->Q (RR)	(!D * SI * SN)	0.09747	0.25235	0.61484
	SN->Q (FR)	(CK * D * SE * SI)	0.06450	0.21693	0.58007
	SN->Q (FR)	(CK * D * SE * !SI)	0.06450	0.21693	0.57995
	SN->Q (FR)	(CK * D * !SE * SI)	0.06450	0.21693	0.58011
	SN->Q (FR)	(CK * D * !SE * !SI)	0.06450	0.21693	0.58011
	SN->Q (FR)	(CK * !D * SE * SI)	0.06450	0.21693	0.58007
	SN->Q (FR)	(CK * !D * SE * !SI)	0.06450	0.21693	0.57995
	SN->Q (FR)	(CK * !D * !SE * SI)	0.06450	0.21693	0.58004
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.06450	0.21693	0.58004
	SN->Q (FR)	(!CK * D * SE * SI)	0.05956	0.20580	0.56504
	SN->Q (FR)	(!CK * D * SE * !SI)	0.06081	0.20764	0.56791
	SN->Q (FR)	(!CK * D * !SE * SI)	0.05956	0.20580	0.56504
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.05956	0.20580	0.56504
	SN->Q (FR)	(!CK * !D * SE * SI)	0.05956	0.20580	0.56504
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.06081	0.20764	0.56791
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.06081	0.20764	0.56791
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.06081	0.20764	0.56791

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX1H7R	CK->Q (RF)	(D * SE * SN)	0.10759	0.25471	0.55271
	CK->Q (RF)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.10759	0.25471	0.55271
	CK->Q (RF)	(!SE * !SI * SN)	0.10760	0.25473	0.55274
	CK->Q (RF)	(!D * SI * SN)	0.10760	0.25473	0.55274

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSQX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7R	**hold**	**CK (R)**	-0.09436	-0.01927	0.04965
	setup	**CK (R)**	-0.02568	0.05480	0.13819

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7R	**hold**	**CK (R)**	-0.16358	-0.07646	-0.02770
	setup	**CK (R)**	0.05135	0.11825	0.21966

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7R	**hold**	**CK (R)**	-0.07643	-0.01085	0.05141
	setup	**CK (R)**	0.08525	0.13359	0.19295

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7R	**hold**	**CK (R)**	-0.12481	-0.03932	0.03264
	setup	**CK (R)**	0.04015	0.10477	0.19684

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7R	hold	CK (R)	-0.09782	-0.02335	0.04411
	setup	CK (R)	-0.02118	0.05921	0.14480

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7R	hold	CK (R)	-0.19799	-0.10093	-0.05048
	setup	CK (R)	0.07434	0.14281	0.25630

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSQX1H7R	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX1H7R	recovery	CK (R)	-0.00969	0.04712	0.10276
	removal	CK (R)	0.05634	0.09700	0.16581

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CK	**(D * SE * SN)**	0.00290	0.00306	0.00350
	CK	**(D * SE * SN)**	0.00000	0.00000	0.00005
	CK	**(D * SE * SN)**	-0.00003	-0.00002	0.00000
	CK	**(D * SE * SN)**	0.00353	0.00370	0.00412
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	0.00290	0.00307	0.00349
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	0.00000	0.00000	0.00005
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	-0.00003	-0.00002	0.00000
	CK	**(D * !SE * SI * SN) + (!D * SE * !SI * SN)**	0.00357	0.00370	0.00412
	CK	**(!SE * !SI * SN)**	0.00290	0.00307	0.00349
	CK	**(!SE * !SI * SN)**	0.00000	0.00000	0.00005
	CK	**(!SE * !SI * SN)**	-0.00002	-0.00002	-0.00001
	CK	**(!SE * !SI * SN)**	0.00357	0.00370	0.00412
	CK	**(!D * SI * SN)**	0.00290	0.00306	0.00350
	CK	**(!D * SI * SN)**	0.00000	0.00000	0.00005
	CK	**(!D * SI * SN)**	-0.00004	-0.00002	-0.00000
	CK	**(!D * SI * SN)**	0.00354	0.00370	0.00412
	SN	**(CK * D * SE * SI)**	0.00369	0.00387	0.00436
	SN	**(CK * D * SE * SI)**	-0.00006	-0.00004	-0.00000
	SN	**(CK * D * SE * SI)**	-0.00001	0.00003	0.00008
	SN	**(CK * D * SE * SI)**	0.00311	0.00331	0.00379
	SN	**(CK * D * SE * !SI)**	0.00369	0.00387	0.00435
	SN	**(CK * D * SE * !SI)**	-0.00008	-0.00004	-0.00000
	SN	**(CK * D * SE * !SI)**	-0.00001	0.00003	0.00008
	SN	**(CK * D * SE * !SI)**	0.00313	0.00331	0.00379
	SN	**(CK * D * !SE * SI)**	0.00369	0.00387	0.00436
	SN	**(CK * D * !SE * SI)**	-0.00007	-0.00004	0.00000
	SN	**(CK * D * !SE * SI)**	0.00000	0.00004	0.00008
	SN	**(CK * D * !SE * SI)**	0.00311	0.00330	0.00379
	SN	**(CK * D * !SE * !SI)**	0.00369	0.00387	0.00436
	SN	**(CK * D * !SE * !SI)**	-0.00009	-0.00004	0.00000
	SN	**(CK * D * !SE * !SI)**	0.00000	0.00004	0.00008
	SN	**(CK * D * !SE * !SI)**	0.00311	0.00330	0.00379
	SN	**(CK * !D * SE * SI)**	0.00369	0.00387	0.00436
	SN	**(CK * !D * SE * SI)**	-0.00006	-0.00004	-0.00000
	SN	**(CK * !D * SE * SI)**	-0.00001	0.00003	0.00008
	SN	**(CK * !D * SE * SI)**	0.00311	0.00331	0.00379
	SN	**(CK * !D * SE * !SI)**	0.00369	0.00387	0.00435
	SN	**(CK * !D * SE * !SI)**	-0.00007	-0.00004	-0.00000
SDFFSQX1H7R	**SN**	**(CK * !D * SE * !SI)**	-0.00001	0.00003	0.00007
	SN	**(CK * !D * SE * !SI)**	0.00313	0.00331	0.00379
	SN	**(CK * !D * !SE * SI)**	0.00369	0.00387	0.00436
	SN	**(CK * !D * !SE * SI)**	-0.00005	-0.00004	-0.00000
	SN	**(CK * !D * !SE * SI)**	-0.00001	0.00003	0.00007
	SN	**(CK * !D * !SE * SI)**	0.00312	0.00331	0.00379
	SN	**(CK * !D * !SE * !SI)**	0.00368	0.00387	0.00436
	SN	**(CK * !D * !SE * !SI)**	-0.00005	-0.00004	-0.00000
	SN	**(CK * !D * !SE * !SI)**	-0.00001	0.00003	0.00007
	SN	**(CK * !D * !SE * !SI)**	0.00312	0.00331	0.00379
	SN	**(!CK * D * SE * SI)**	0.00245	0.00262	0.00311
	SN	**(!CK * D * SE * SI)**	-0.00003	0.00001	0.00006
	SN	**(!CK * D * SE * SI)**	-0.00008	-0.00004	-0.00003
	SN	**(!CK * D * SE * SI)**	0.00200	0.00217	0.00266
	SN	**(!CK * D * SE * !SI)**	0.00247	0.00264	0.00315
	SN	**(!CK * D * SE * !SI)**	-0.00001	0.00002	0.00006
	SN	**(!CK * D * SE * !SI)**	-0.00005	-0.00004	-0.00002
	SN	**(!CK * D * SE * !SI)**	0.00204	0.00221	0.00272
	SN	**(!CK * D * !SE * SI)**	0.00242	0.00261	0.00311
	SN	**(!CK * D * !SE * SI)**	-0.00002	0.00002	0.00006
	SN	**(!CK * D * !SE * SI)**	-0.00004	-0.00003	0.00001
	SN	**(!CK * D * !SE * SI)**	0.00198	0.00217	0.00266
	SN	**(!CK * D * !SE * !SI)**	0.00242	0.00262	0.00311
	SN	**(!CK * D * !SE * !SI)**	-0.00004	0.00001	0.00006
	SN	**(!CK * D * !SE * !SI)**	-0.00004	-0.00003	0.00001
	SN	**(!CK * D * !SE * !SI)**	0.00198	0.00217	0.00266
	SN	**(!CK * !D * SE * SI)**	0.00242	0.00261	0.00311
	SN	**(!CK * !D * SE * SI)**	-0.00003	0.00001	0.00006
	SN	**(!CK * !D * SE * SI)**	-0.00008	-0.00004	-0.00003
	SN	**(!CK * !D * SE * SI)**	0.00200	0.00217	0.00266
	SN	**(!CK * !D * SE * !SI)**	0.00247	0.00264	0.00316
	SN	**(!CK * !D * SE * !SI)**	-0.00001	0.00002	0.00006
	SN	**(!CK * !D * SE * !SI)**	-0.00005	-0.00004	-0.00002
	SN	**(!CK * !D * SE * !SI)**	0.00204	0.00221	0.00272
	SN	**(!CK * !D * !SE * SI)**	0.00247	0.00264	0.00315
	SN	**(!CK * !D * !SE * SI)**	0.00002	0.00002	0.00005
	SN	**(!CK * !D * !SE * SI)**	-0.00005	-0.00004	-0.00000
	SN	**(!CK * !D * !SE * SI)**	0.00202	0.00221	0.00272
	SN	**(!CK * !D * !SE * !SI)**	0.00247	0.00264	0.00316
	SN	**(!CK * !D * !SE * !SI)**	0.00002	0.00002	0.00005
	SN	**(!CK * !D * !SE * !SI)**	-0.00005	-0.00004	-0.00000
	SN	**(!CK * !D * !SE * !SI)**	0.00202	0.00221	0.00272

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSQX1H7R	CK	(D * SE * SN)	0.00310	0.00320	0.00357
	CK	(D * SE * SN)	-0.00001	-0.00000	0.00000
	CK	(D * SE * SN)	0.00000	0.00002	0.00003
	CK	(D * SE * SN)	0.00362	0.00373	0.00409
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00310	0.00320	0.00357
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	-0.00001	-0.00000	0.00000
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00000	0.00002	0.00003
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00362	0.00373	0.00409
	CK	(!SE * !SI * SN)	0.00310	0.00320	0.00357
	CK	(!SE * !SI * SN)	-0.00001	-0.00000	0.00000
	CK	(!SE * !SI * SN)	0.00002	0.00002	0.00002
	CK	(!SE * !SI * SN)	0.00362	0.00373	0.00409
	CK	(!D * SI * SN)	0.00310	0.00320	0.00357
	CK	(!D * SI * SN)	-0.00001	-0.00000	0.00000
	CK	(!D * SI * SN)	0.00002	0.00002	0.00004
	CK	(!D * SI * SN)	0.00362	0.00373	0.00409

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7R	**(D * SE * SI * SN)**	0.00133	0.00142	0.00174
	(D * SE * SI * SN)	0.00000	0.00000	0.00000
	(D * SE * SI * SN)	-0.00000	0.00000	0.00001
	(D * SE * SI * SN)	0.00190	0.00199	0.00231
	(D * SE * SI * !SN)	0.00129	0.00138	0.00170
	(D * SE * SI * !SN)	0.00000	0.00000	0.00000
	(D * SE * SI * !SN)	0.00000	0.00000	0.00000
	(D * SE * SI * !SN)	0.00187	0.00196	0.00228
	(D * SE * !SI * SN)	0.00145	0.00154	0.00186
	(D * SE * !SI * SN)	-0.00001	-0.00000	0.00001
	(D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00204	0.00213	0.00246
	(D * SE * !SI * !SN)	0.00257	0.00267	0.00301
	(D * SE * !SI * !SN)	-0.00004	-0.00004	-0.00003
	(D * SE * !SI * !SN)	0.00003	0.00004	0.00005
	(D * SE * !SI * !SN)	0.00307	0.00317	0.00351
	(D * !SE * SI * SN)	0.00133	0.00142	0.00174
	(D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * SI * SN)	-0.00001	0.00000	0.00001
	(D * !SE * SI * SN)	0.00190	0.00199	0.00231
	(D * !SE * SI * !SN)	0.00129	0.00138	0.00170
	(D * !SE * SI * !SN)	0.00000	0.00000	0.00001
	(D * !SE * SI * !SN)	-0.00000	0.00000	0.00000
	(D * !SE * SI * !SN)	0.00187	0.00196	0.00228
	(D * !SE * !SI * SN)	0.00133	0.00142	0.00174
	(D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * !SI * SN)	-0.00001	0.00000	0.00001
	(D * !SE * !SI * SN)	0.00190	0.00199	0.00231
	(D * !SE * !SI * !SN)	0.00129	0.00138	0.00170
	(D * !SE * !SI * !SN)	0.00000	0.00000	0.00001
	(D * !SE * !SI * !SN)	-0.00000	0.00000	0.00000
	(D * !SE * !SI * !SN)	0.00187	0.00196	0.00228
	(!D * SE * SI * SN)	0.00133	0.00142	0.00174
	(!D * SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * SN)	-0.00000	0.00000	0.00001
	(!D * SE * SI * SN)	0.00190	0.00199	0.00231
	(!D * SE * SI * !SN)	0.00129	0.00137	0.00170
	(!D * SE * SI * !SN)	0.00000	0.00000	0.00001
	(!D * SE * SI * !SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * !SN)	0.00187	0.00196	0.00228
	(!D * SE * !SI * SN)	0.00145	0.00154	0.00186
	(!D * SE * !SI * SN)	-0.00001	-0.00000	0.00001
	(!D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00204	0.00213	0.00246
	(!D * SE * !SI * !SN)	0.00257	0.00267	0.00301
	(!D * SE * !SI * !SN)	-0.00004	-0.00004	-0.00004
	(!D * SE * !SI * !SN)	0.00003	0.00004	0.00005
	(!D * SE * !SI * !SN)	0.00307	0.00317	0.00351
	(!D * !SE * SI * SN)	0.00145	0.00154	0.00186
	(!D * !SE * SI * SN)	-0.00001	-0.00000	0.00001
	(!D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * SI * SN)	0.00204	0.00213	0.00246
	(!D * !SE * SI * !SN)	0.00257	0.00267	0.00300
	(!D * !SE * SI * !SN)	-0.00005	-0.00004	-0.00004
	(!D * !SE * SI * !SN)	0.00003	0.00004	0.00004
	(!D * !SE * SI * !SN)	0.00307	0.00317	0.00351
	(!D * !SE * !SI * SN)	0.00145	0.00154	0.00186
	(!D * !SE * !SI * SN)	-0.00001	-0.00000	0.00001
	(!D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00204	0.00213	0.00246
	(!D * !SE * !SI * !SN)	0.00257	0.00267	0.00300
	(!D * !SE * !SI * !SN)	-0.00005	-0.00004	-0.00004
	(!D * !SE * !SI * !SN)	0.00003	0.00004	0.00004
	(!D * !SE * !SI * !SN)	0.00307	0.00317	0.00351

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7R	**(D * SE * SI * SN)**	0.00361	0.00369	0.00402
	(D * SE * SI * SN)	0.00000	0.00000	0.00000
	(D * SE * SI * SN)	0.00006	0.00006	0.00006
	(D * SE * SI * SN)	0.00294	0.00302	0.00334
	(D * SE * SI * !SN)	0.00224	0.00234	0.00270
	(D * SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(D * SE * SI * !SN)	0.00000	0.00000	0.00001
	(D * SE * SI * !SN)	0.00166	0.00176	0.00211
	(D * SE * !SI * SN)	0.00313	0.00324	0.00363
	(D * SE * !SI * SN)	0.00004	0.00005	0.00006
	(D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00265	0.00275	0.00314
	(D * SE * !SI * !SN)	0.00232	0.00243	0.00283
	(D * SE * !SI * !SN)	0.00007	0.00007	0.00008
	(D * SE * !SI * !SN)	-0.00005	-0.00004	-0.00003
	(D * SE * !SI * !SN)	0.00190	0.00201	0.00240
	(D * !SE * SI * SN)	0.00360	0.00369	0.00402
	(D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * SI * SN)	0.00005	0.00006	0.00006
	(D * !SE * SI * SN)	0.00292	0.00302	0.00334
	(D * !SE * SI * !SN)	0.00224	0.00235	0.00270
	(D * !SE * SI * !SN)	-0.00001	-0.00000	0.00000
	(D * !SE * SI * !SN)	-0.00000	0.00000	0.00001
	(D * !SE * SI * !SN)	0.00166	0.00176	0.00211
	(D * !SE * !SI * SN)	0.00360	0.00369	0.00402
	(D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * !SI * SN)	0.00005	0.00006	0.00006
	(D * !SE * !SI * SN)	0.00292	0.00302	0.00334
	(D * !SE * !SI * !SN)	0.00224	0.00235	0.00270
	(D * !SE * !SI * !SN)	-0.00001	-0.00000	0.00000
	(D * !SE * !SI * !SN)	-0.00000	0.00000	0.00001
	(D * !SE * !SI * !SN)	0.00166	0.00176	0.00211
	(!D * SE * SI * SN)	0.00361	0.00370	0.00402
	(!D * SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * SN)	0.00005	0.00006	0.00006
	(!D * SE * SI * SN)	0.00294	0.00302	0.00335
	(!D * SE * SI * !SN)	0.00224	0.00234	0.00270
	(!D * SE * SI * !SN)	-0.00001	-0.00000	0.00000
	(!D * SE * SI * !SN)	0.00000	0.00000	0.00001
	(!D * SE * SI * !SN)	0.00166	0.00176	0.00211
	(!D * SE * !SI * SN)	0.00313	0.00324	0.00363
	(!D * SE * !SI * SN)	0.00004	0.00005	0.00006
	(!D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00264	0.00275	0.00314
	(!D * SE * !SI * !SN)	0.00232	0.00243	0.00283
	(!D * SE * !SI * !SN)	0.00007	0.00007	0.00008
	(!D * SE * !SI * !SN)	-0.00005	-0.00004	-0.00003
	(!D * SE * !SI * !SN)	0.00190	0.00201	0.00240
	(!D * !SE * SI * SN)	0.00313	0.00324	0.00363
	(!D * !SE * SI * SN)	0.00004	0.00005	0.00006
	(!D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * SI * SN)	0.00265	0.00275	0.00314
	(!D * !SE * SI * !SN)	0.00232	0.00243	0.00283
	(!D * !SE * SI * !SN)	0.00007	0.00008	0.00008
	(!D * !SE * SI * !SN)	-0.00004	-0.00004	-0.00003
	(!D * !SE * SI * !SN)	0.00190	0.00201	0.00240
	(!D * !SE * !SI * SN)	0.00313	0.00324	0.00363
	(!D * !SE * !SI * SN)	0.00004	0.00005	0.00006
	(!D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00265	0.00275	0.00314
	(!D * !SE * !SI * !SN)	0.00232	0.00243	0.00283
	(!D * !SE * !SI * !SN)	0.00007	0.00008	0.00008
	(!D * !SE * !SI * !SN)	-0.00004	-0.00004	-0.00003
	(!D * !SE * !SI * !SN)	0.00190	0.00201	0.00240

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7R	**(CK * SE * SI * SN)**	-0.00010	-0.00009	-0.00008
	(CK * SE * SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * SI * SN)	0.00001	0.00001	0.00001
	(CK * SE * SI * SN)	0.00022	0.00022	0.00023
	(CK * SE * SI * !SN)	-0.00010	-0.00009	-0.00008
	(CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * SI * !SN)	0.00001	0.00001	0.00001
	(CK * SE * SI * !SN)	0.00022	0.00022	0.00023
	(CK * SE * !SI * SN)	-0.00010	-0.00009	-0.00008
	(CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * SN)	0.00022	0.00022	0.00023
	(CK * SE * !SI * !SN)	-0.00010	-0.00009	-0.00008
	(CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * !SN)	0.00022	0.00022	0.00023
	(CK * !SE * SI * SN)	0.00017	0.00022	0.00041
	(CK * !SE * SI * SN)	0.00010	0.00011	0.00011
	(CK * !SE * SI * SN)	-0.00010	-0.00009	-0.00009
	(CK * !SE * SI * SN)	0.00104	0.00109	0.00128
	(CK * !SE * SI * !SN)	0.00017	0.00022	0.00041
	(CK * !SE * SI * !SN)	0.00010	0.00011	0.00011
	(CK * !SE * SI * !SN)	-0.00009	-0.00009	-0.00009
	(CK * !SE * SI * !SN)	0.00104	0.00109	0.00128
	(CK * !SE * !SI * SN)	0.00017	0.00022	0.00041
	(CK * !SE * !SI * SN)	0.00011	0.00011	0.00011
	(CK * !SE * !SI * SN)	-0.00010	-0.00009	-0.00009
	(CK * !SE * !SI * SN)	0.00104	0.00109	0.00128
	(CK * !SE * !SI * !SN)	0.00017	0.00022	0.00041
	(CK * !SE * !SI * !SN)	0.00010	0.00011	0.00011
	(CK * !SE * !SI * !SN)	-0.00009	-0.00009	-0.00009
	(CK * !SE * !SI * !SN)	0.00104	0.00109	0.00128
	(!CK * SE * SI * SN)	-0.00010	-0.00009	-0.00008
	(!CK * SE * SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * SI * SN)	0.00001	0.00001	0.00001
	(!CK * SE * SI * SN)	0.00022	0.00022	0.00023
	(!CK * SE * SI * !SN)	-0.00010	-0.00009	-0.00008
	(!CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * SI * !SN)	0.00001	0.00001	0.00001
	(!CK * SE * SI * !SN)	0.00022	0.00022	0.00023
	(!CK * SE * !SI * SN)	-0.00010	-0.00009	-0.00008
	(!CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * SN)	0.00022	0.00022	0.00023
	(!CK * SE * !SI * !SN)	-0.00010	-0.00009	-0.00008
	(!CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * !SN)	0.00022	0.00022	0.00023
	(!CK * !SE * SI * SN)	0.00166	0.00171	0.00191
	(!CK * !SE * SI * SN)	0.00006	0.00007	0.00007
	(!CK * !SE * SI * SN)	-0.00004	-0.00004	-0.00003
	(!CK * !SE * SI * SN)	0.00244	0.00249	0.00268
	(!CK * !SE * SI * !SN)	0.00172	0.00177	0.00197
	(!CK * !SE * SI * !SN)	0.00006	0.00007	0.00007
	(!CK * !SE * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * SI * !SN)	0.00250	0.00255	0.00274
	(!CK * !SE * !SI * SN)	0.00166	0.00171	0.00191
	(!CK * !SE * !SI * SN)	0.00006	0.00007	0.00008
	(!CK * !SE * !SI * SN)	-0.00004	-0.00004	-0.00003
	(!CK * !SE * !SI * SN)	0.00244	0.00249	0.00268
	(!CK * !SE * !SI * !SN)	0.00173	0.00178	0.00198
	(!CK * !SE * !SI * !SN)	0.00004	0.00005	0.00005
	(!CK * !SE * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * !SI * !SN)	0.00249	0.00254	0.00273

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7R	**(CK * SE * SI * SN)**	0.00010	0.00010	0.00010
	(CK * SE * SI * SN)	0.00001	0.00001	0.00001
	(CK * SE * SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * SI * SN)	-0.00022	-0.00022	-0.00021
	(CK * SE * SI * !SN)	0.00010	0.00010	0.00010
	(CK * SE * SI * !SN)	0.00001	0.00001	0.00001
	(CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * SI * !SN)	-0.00022	-0.00022	-0.00021
	(CK * SE * !SI * SN)	0.00010	0.00010	0.00011
	(CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * SN)	-0.00022	-0.00021	-0.00021
	(CK * SE * !SI * !SN)	0.00010	0.00010	0.00011
	(CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * !SN)	-0.00022	-0.00021	-0.00021
	(CK * !SE * SI * SN)	0.00122	0.00127	0.00149
	(CK * !SE * SI * SN)	-0.00011	-0.00011	-0.00010
	(CK * !SE * SI * SN)	0.00009	0.00009	0.00010
	(CK * !SE * SI * SN)	0.00034	0.00040	0.00061
	(CK * !SE * SI * !SN)	0.00122	0.00128	0.00149
	(CK * !SE * SI * !SN)	-0.00011	-0.00011	-0.00010
	(CK * !SE * SI * !SN)	0.00009	0.00009	0.00009
	(CK * !SE * SI * !SN)	0.00035	0.00040	0.00062
	(CK * !SE * !SI * SN)	0.00122	0.00127	0.00149
	(CK * !SE * !SI * SN)	-0.00011	-0.00011	-0.00011
	(CK * !SE * !SI * SN)	0.00009	0.00010	0.00010
	(CK * !SE * !SI * SN)	0.00034	0.00039	0.00061
	(CK * !SE * !SI * !SN)	0.00122	0.00128	0.00149
	(CK * !SE * !SI * !SN)	-0.00011	-0.00011	-0.00010
	(CK * !SE * !SI * !SN)	0.00009	0.00009	0.00009
	(CK * !SE * !SI * !SN)	0.00035	0.00040	0.00062
	(!CK * SE * SI * SN)	0.00010	0.00010	0.00010
	(!CK * SE * SI * SN)	0.00001	0.00001	0.00001
	(!CK * SE * SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * SI * SN)	-0.00022	-0.00021	-0.00021
	(!CK * SE * SI * !SN)	0.00010	0.00010	0.00010
	(!CK * SE * SI * !SN)	0.00001	0.00001	0.00001
	(!CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * SI * !SN)	-0.00022	-0.00022	-0.00021
	(!CK * SE * !SI * SN)	0.00010	0.00010	0.00011
	(!CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * SN)	-0.00022	-0.00021	-0.00021
	(!CK * SE * !SI * !SN)	0.00010	0.00010	0.00011
	(!CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * !SN)	-0.00022	-0.00021	-0.00021
	(!CK * !SE * SI * SN)	0.00221	0.00226	0.00248
	(!CK * !SE * SI * SN)	-0.00007	-0.00007	-0.00006
	(!CK * !SE * SI * SN)	0.00003	0.00004	0.00004
	(!CK * !SE * SI * SN)	0.00143	0.00149	0.00170
	(!CK * !SE * SI * !SN)	0.00146	0.00152	0.00173
	(!CK * !SE * SI * !SN)	-0.00002	-0.00001	-0.00001
	(!CK * !SE * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * SI * !SN)	0.00080	0.00086	0.00108
	(!CK * !SE * !SI * SN)	0.00221	0.00226	0.00248
	(!CK * !SE * !SI * SN)	-0.00008	-0.00007	-0.00006
	(!CK * !SE * !SI * SN)	0.00003	0.00004	0.00004
	(!CK * !SE * !SI * SN)	0.00143	0.00148	0.00170
	(!CK * !SE * !SI * !SN)	0.00146	0.00152	0.00173
	(!CK * !SE * !SI * !SN)	-0.00002	-0.00001	-0.00001
	(!CK * !SE * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * !SI * !SN)	0.00080	0.00086	0.00108

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

	(CK * D * SI * SN)	-0.00011	0.00000	0.00042
	(CK * D * SI * SN)	0.00001	0.00001	0.00001
	(CK * D * SI * SN)	-0.00002	-0.00002	-0.00001
	(CK * D * SI * SN)	0.00092	0.00104	0.00145
	(CK * D * SI * !SN)	-0.00011	0.00000	0.00042
	(CK * D * SI * !SN)	0.00001	0.00001	0.00001
	(CK * D * SI * !SN)	-0.00002	-0.00002	-0.00001
	(CK * D * SI * !SN)	0.00092	0.00103	0.00145
	(CK * D * !SI * SN)	0.00106	0.00117	0.00156
	(CK * D * !SI * SN)	-0.00006	-0.00005	-0.00004
	(CK * D * !SI * SN)	0.00004	0.00005	0.00005
	(CK * D * !SI * SN)	0.00169	0.00180	0.00219
	(CK * D * !SI * !SN)	0.00106	0.00117	0.00157
	(CK * D * !SI * !SN)	-0.00006	-0.00005	-0.00004
	(CK * D * !SI * !SN)	0.00004	0.00005	0.00006
	(CK * D * !SI * !SN)	0.00169	0.00180	0.00220
	(CK * !D * SI * SN)	-0.00011	0.00010	0.00087
	(CK * !D * SI * SN)	0.00009	0.00009	0.00009
	(CK * !D * SI * SN)	-0.00009	-0.00009	-0.00008
	(CK * !D * SI * SN)	0.00134	0.00155	0.00233
	(CK * !D * SI * !SN)	-0.00011	0.00010	0.00087
	(CK * !D * SI * !SN)	0.00009	0.00010	0.00010
	(CK * !D * SI * !SN)	-0.00009	-0.00009	-0.00008
	(CK * !D * SI * !SN)	0.00135	0.00156	0.00233
	(CK * !D * !SI * SN)	-0.00009	0.00003	0.00045
	(CK * !D * !SI * SN)	0.00001	0.00002	0.00002
	(CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00000
	(CK * !D * !SI * SN)	0.00096	0.00108	0.00151
	(CK * !D * !SI * !SN)	-0.00009	0.00003	0.00045
	(CK * !D * !SI * !SN)	0.00001	0.00002	0.00002
	(CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SI * !SN)	0.00096	0.00109	0.00151
SDFFSQX1H7R	**(!CK * D * SI * SN)**	-0.00011	0.00000	0.00042
	(!CK * D * SI * SN)	0.00001	0.00001	0.00001
	(!CK * D * SI * SN)	-0.00002	-0.00002	-0.00002
	(!CK * D * SI * SN)	0.00092	0.00104	0.00145
	(!CK * D * SI * !SN)	-0.00011	0.00000	0.00042
	(!CK * D * SI * !SN)	0.00001	0.00001	0.00001
	(!CK * D * SI * !SN)	-0.00002	-0.00002	-0.00001
	(!CK * D * SI * !SN)	0.00092	0.00104	0.00145
	(!CK * D * !SI * SN)	0.00205	0.00216	0.00255
	(!CK * D * !SI * SN)	-0.00001	-0.00001	0.00000
	(!CK * D * !SI * SN)	0.00000	0.00000	0.00001
	(!CK * D * !SI * SN)	0.00278	0.00289	0.00328
	(!CK * D * !SI * !SN)	0.00131	0.00142	0.00181
	(!CK * D * !SI * !SN)	0.00004	0.00005	0.00006
	(!CK * D * !SI * !SN)	-0.00000	-0.00000	0.00000
	(!CK * D * !SI * !SN)	0.00215	0.00227	0.00265
	(!CK * !D * SI * SN)	0.00139	0.00160	0.00237
	(!CK * !D * SI * SN)	0.00004	0.00005	0.00006
	(!CK * !D * SI * SN)	-0.00004	-0.00004	-0.00003
	(!CK * !D * SI * SN)	0.00275	0.00296	0.00373
	(!CK * !D * SI * !SN)	0.00146	0.00167	0.00243
	(!CK * !D * SI * !SN)	0.00006	0.00006	0.00006
	(!CK * !D * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SI * !SN)	0.00284	0.00305	0.00382
	(!CK * !D * !SI * SN)	-0.00009	0.00003	0.00045
	(!CK * !D * !SI * SN)	0.00002	0.00002	0.00003
	(!CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SI * SN)	0.00096	0.00108	0.00151
	(!CK * !D * !SI * !SN)	-0.00009	0.00003	0.00045
	(!CK * !D * !SI * !SN)	0.00000	0.00002	0.00002
	(!CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SI * !SN)	0.00096	0.00108	0.00151

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7R	**(CK * D * SI * SN)**	0.00092	0.00105	0.00151
	(CK * D * SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * D * SI * SN)	0.00001	0.00002	0.00002
	(CK * D * SI * SN)	-0.00011	0.00003	0.00048
	(CK * D * SI * !SN)	0.00092	0.00105	0.00151
	(CK * D * SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * D * SI * !SN)	0.00001	0.00002	0.00002
	(CK * D * SI * !SN)	-0.00011	0.00003	0.00048
	(CK * D * !SI * SN)	0.00123	0.00137	0.00185
	(CK * D * !SI * SN)	0.00004	0.00005	0.00006
	(CK * D * !SI * SN)	-0.00005	-0.00005	-0.00004
	(CK * D * !SI * SN)	0.00060	0.00074	0.00122
	(CK * D * !SI * !SN)	0.00124	0.00138	0.00184
	(CK * D * !SI * !SN)	0.00004	0.00005	0.00006
	(CK * D * !SI * !SN)	-0.00005	-0.00004	-0.00004
	(CK * D * !SI * !SN)	0.00060	0.00074	0.00122
	(CK * !D * SI * SN)	0.00170	0.00194	0.00277
	(CK * !D * SI * SN)	-0.00009	-0.00009	-0.00009
	(CK * !D * SI * SN)	0.00008	0.00009	0.00009
	(CK * !D * SI * SN)	0.00024	0.00048	0.00132
	(CK * !D * SI * !SN)	0.00170	0.00194	0.00277
	(CK * !D * SI * !SN)	-0.00010	-0.00010	-0.00009
	(CK * !D * SI * !SN)	0.00009	0.00009	0.00010
	(CK * !D * SI * !SN)	0.00025	0.00048	0.00132
	(CK * !D * !SI * SN)	0.00088	0.00101	0.00147
	(CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00001
	(CK * !D * !SI * SN)	0.00002	0.00002	0.00002
	(CK * !D * !SI * SN)	-0.00017	-0.00004	0.00042
	(CK * !D * !SI * !SN)	0.00088	0.00101	0.00147
	(CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00001
	(CK * !D * !SI * !SN)	0.00002	0.00002	0.00002
	(CK * !D * !SI * !SN)	-0.00017	-0.00004	0.00042
	(!CK * D * SI * SN)	0.00092	0.00105	0.00151
	(!CK * D * SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * SI * SN)	0.00002	0.00002	0.00002
	(!CK * D * SI * SN)	-0.00011	0.00003	0.00048
	(!CK * D * SI * !SN)	0.00092	0.00105	0.00152
	(!CK * D * SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * SI * !SN)	0.00001	0.00002	0.00002
	(!CK * D * SI * !SN)	-0.00010	0.00003	0.00048
	(!CK * D * !SI * SN)	0.00273	0.00287	0.00334
	(!CK * D * !SI * SN)	0.00000	0.00001	0.00003
	(!CK * D * !SI * SN)	0.00000	0.00000	0.00001
	(!CK * D * !SI * SN)	0.00201	0.00215	0.00262
	(!CK * D * !SI * !SN)	0.00277	0.00289	0.00332
	(!CK * D * !SI * !SN)	0.00003	0.00004	0.00006
	(!CK * D * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * D * !SI * !SN)	0.00210	0.00223	0.00268
	(!CK * !D * SI * SN)	0.00269	0.00293	0.00377
	(!CK * !D * SI * SN)	-0.00005	-0.00005	-0.00004
	(!CK * !D * SI * SN)	0.00003	0.00004	0.00005
	(!CK * !D * SI * SN)	0.00134	0.00157	0.00241
	(!CK * !D * SI * !SN)	0.00194	0.00218	0.00302
	(!CK * !D * SI * !SN)	0.00001	0.00002	0.00003
	(!CK * !D * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SI * !SN)	0.00071	0.00094	0.00178
	(!CK * !D * !SI * SN)	0.00088	0.00101	0.00147
	(!CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !SI * SN)	0.00002	0.00002	0.00002
	(!CK * !D * !SI * SN)	-0.00017	-0.00004	0.00042
	(!CK * !D * !SI * !SN)	0.00088	0.00101	0.00147
	(!CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00000
	(!CK * !D * !SI * !SN)	0.00002	0.00002	0.00002
	(!CK * !D * !SI * !SN)	-0.00017	-0.00004	0.00042

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7R	**(CK * D * SE * SN)**	0.00002	0.00005	0.00019
	(CK * D * SE * SN)	0.00009	0.00009	0.00009
	(CK * D * SE * SN)	-0.00009	-0.00009	-0.00008
	(CK * D * SE * SN)	0.00087	0.00090	0.00103
	(CK * D * SE * !SN)	0.00002	0.00006	0.00019
	(CK * D * SE * !SN)	0.00009	0.00009	0.00009
	(CK * D * SE * !SN)	-0.00008	-0.00008	-0.00008
	(CK * D * SE * !SN)	0.00087	0.00090	0.00103
	(CK * D * !SE * SN)	-0.00011	-0.00010	-0.00010
	(CK * D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(CK * D * !SE * SN)	0.00001	0.00001	0.00001
	(CK * D * !SE * SN)	0.00024	0.00024	0.00025
	(CK * D * !SE * !SN)	-0.00011	-0.00011	-0.00010
	(CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(CK * D * !SE * !SN)	0.00001	0.00001	0.00001
	(CK * D * !SE * !SN)	0.00024	0.00024	0.00025
	(CK * !D * SE * SN)	0.00002	0.00005	0.00019
	(CK * !D * SE * SN)	0.00009	0.00009	0.00009
	(CK * !D * SE * SN)	-0.00009	-0.00009	-0.00008
	(CK * !D * SE * SN)	0.00087	0.00090	0.00103
	(CK * !D * SE * !SN)	0.00002	0.00006	0.00019
	(CK * !D * SE * !SN)	0.00008	0.00009	0.00009
	(CK * !D * SE * !SN)	-0.00009	-0.00008	-0.00008
	(CK * !D * SE * !SN)	0.00087	0.00090	0.00103
	(CK * !D * !SE * SN)	-0.00017	-0.00017	-0.00016
	(CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(CK * !D * !SE * SN)	0.00001	0.00001	0.00001
	(CK * !D * !SE * SN)	0.00018	0.00018	0.00019
	(CK * !D * !SE * !SN)	-0.00017	-0.00017	-0.00016
	(CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(CK * !D * !SE * !SN)	0.00000	0.00001	0.00001
	(CK * !D * !SE * !SN)	0.00018	0.00018	0.00019
	(!CK * D * SE * SN)	0.00151	0.00155	0.00169
	(!CK * D * SE * SN)	0.00004	0.00005	0.00005
	(!CK * D * SE * SN)	-0.00004	-0.00003	-0.00003
	(!CK * D * SE * SN)	0.00227	0.00231	0.00244
	(!CK * D * SE * !SN)	0.00156	0.00161	0.00174
	(!CK * D * SE * !SN)	0.00005	0.00005	0.00005
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00232	0.00236	0.00250
	(!CK * D * !SE * SN)	-0.00011	-0.00010	-0.00010
	(!CK * D * !SE * SN)	-0.00001	-0.00001	-0.00000
	(!CK * D * !SE * SN)	0.00001	0.00001	0.00001
	(!CK * D * !SE * SN)	0.00024	0.00024	0.00025
	(!CK * D * !SE * !SN)	-0.00011	-0.00010	-0.00010
	(!CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * D * !SE * !SN)	0.00001	0.00001	0.00001
	(!CK * D * !SE * !SN)	0.00024	0.00024	0.00025
	(!CK * !D * SE * SN)	0.00151	0.00155	0.00169
	(!CK * !D * SE * SN)	0.00004	0.00005	0.00006
	(!CK * !D * SE * SN)	-0.00004	-0.00003	-0.00003
	(!CK * !D * SE * SN)	0.00227	0.00231	0.00244
	(!CK * !D * SE * !SN)	0.00158	0.00162	0.00175
	(!CK * !D * SE * !SN)	0.00003	0.00003	0.00004
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00231	0.00235	0.00249
	(!CK * !D * !SE * SN)	-0.00017	-0.00017	-0.00016
	(!CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !SE * SN)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * SN)	0.00018	0.00018	0.00019
	(!CK * !D * !SE * !SN)	-0.00017	-0.00017	-0.00016
	(!CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !SE * !SN)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * !SN)	0.00018	0.00018	0.00019

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7R	**(CK * D * SE * SN)**	0.00130	0.00135	0.00150
	(CK * D * SE * SN)	-0.00009	-0.00009	-0.00009
	(CK * D * SE * SN)	0.00008	0.00009	0.00009
	(CK * D * SE * SN)	0.00046	0.00050	0.00065
	(CK * D * SE * !SN)	0.00131	0.00135	0.00150
	(CK * D * SE * !SN)	-0.00009	-0.00009	-0.00009
	(CK * D * SE * !SN)	0.00008	0.00008	0.00008
	(CK * D * SE * !SN)	0.00046	0.00051	0.00066
	(CK * D * !SE * SN)	0.00011	0.00011	0.00011
	(CK * D * !SE * SN)	0.00001	0.00001	0.00001
	(CK * D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(CK * D * !SE * SN)	-0.00024	-0.00024	-0.00023
	(CK * D * !SE * !SN)	0.00011	0.00011	0.00011
	(CK * D * !SE * !SN)	0.00001	0.00001	0.00001
	(CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(CK * D * !SE * !SN)	-0.00024	-0.00024	-0.00023
	(CK * !D * SE * SN)	0.00130	0.00135	0.00150
	(CK * !D * SE * SN)	-0.00009	-0.00009	-0.00009
	(CK * !D * SE * SN)	0.00008	0.00009	0.00009
	(CK * !D * SE * SN)	0.00046	0.00050	0.00065
	(CK * !D * SE * !SN)	0.00131	0.00135	0.00150
	(CK * !D * SE * !SN)	-0.00009	-0.00009	-0.00008
	(CK * !D * SE * !SN)	0.00008	0.00008	0.00009
	(CK * !D * SE * !SN)	0.00046	0.00051	0.00066
	(CK * !D * !SE * SN)	0.00017	0.00017	0.00018
	(CK * !D * !SE * SN)	0.00001	0.00001	0.00001
	(CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SE * SN)	-0.00018	-0.00017	-0.00017
	(CK * !D * !SE * !SN)	0.00017	0.00017	0.00018
	(CK * !D * !SE * !SN)	0.00001	0.00001	0.00001
	(CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SE * !SN)	-0.00018	-0.00017	-0.00016
	(!CK * D * SE * SN)	0.00229	0.00234	0.00250
	(!CK * D * SE * SN)	-0.00005	-0.00005	-0.00004
	(!CK * D * SE * SN)	0.00003	0.00003	0.00004
	(!CK * D * SE * SN)	0.00154	0.00159	0.00175
	(!CK * D * SE * !SN)	0.00155	0.00160	0.00175
	(!CK * D * SE * !SN)	0.00000	0.00001	0.00001
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00092	0.00096	0.00112
	(!CK * D * !SE * SN)	0.00011	0.00011	0.00011
	(!CK * D * !SE * SN)	0.00000	0.00001	0.00001
	(!CK * D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * !SE * SN)	-0.00024	-0.00024	-0.00023
	(!CK * D * !SE * !SN)	0.00011	0.00011	0.00011
	(!CK * D * !SE * !SN)	0.00000	0.00001	0.00001
	(!CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * !SE * !SN)	-0.00024	-0.00024	-0.00023
	(!CK * !D * SE * SN)	0.00229	0.00234	0.00250
	(!CK * !D * SE * SN)	-0.00005	-0.00005	-0.00004
	(!CK * !D * SE * SN)	0.00003	0.00003	0.00004
	(!CK * !D * SE * SN)	0.00154	0.00159	0.00175
	(!CK * !D * SE * !SN)	0.00155	0.00159	0.00175
	(!CK * !D * SE * !SN)	0.00001	0.00001	0.00002
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00092	0.00096	0.00112
	(!CK * !D * !SE * SN)	0.00017	0.00018	0.00018
	(!CK * !D * !SE * SN)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !SE * SN)	-0.00018	-0.00017	-0.00016
	(!CK * !D * !SE * !SN)	0.00017	0.00017	0.00018
	(!CK * !D * !SE * !SN)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * !D * !SE * !SN)	-0.00018	-0.00017	-0.00017

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX1H7R	**(CK * D * SE * SI)**	0.00001	0.00014	0.00059
	(CK * D * SE * SI)	0.00003	0.00003	0.00004
	(CK * D * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * D * SE * SI)	0.00058	0.00071	0.00116
	(CK * D * SE * !SI)	0.00001	0.00014	0.00059
	(CK * D * SE * !SI)	0.00003	0.00003	0.00004
	(CK * D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * D * SE * !SI)	0.00058	0.00071	0.00116
	(CK * D * !SE * SI)	0.00001	0.00014	0.00059
	(CK * D * !SE * SI)	0.00003	0.00003	0.00004
	(CK * D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * D * !SE * SI)	0.00058	0.00071	0.00116
	(CK * D * !SE * !SI)	0.00001	0.00014	0.00059
	(CK * D * !SE * !SI)	0.00003	0.00003	0.00004
	(CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * D * !SE * !SI)	0.00058	0.00071	0.00116
	(CK * !D * SE * SI)	0.00001	0.00014	0.00059
	(CK * !D * SE * SI)	0.00003	0.00003	0.00004
	(CK * !D * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * SE * SI)	0.00058	0.00071	0.00116
	(CK * !D * SE * !SI)	0.00001	0.00014	0.00059
	(CK * !D * SE * !SI)	0.00003	0.00003	0.00004
	(CK * !D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * SE * !SI)	0.00058	0.00071	0.00116
	(CK * !D * !SE * SI)	0.00001	0.00014	0.00059
	(CK * !D * !SE * SI)	0.00003	0.00003	0.00004
	(CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * SI)	0.00058	0.00071	0.00116
	(CK * !D * !SE * !SI)	0.00001	0.00014	0.00059
	(CK * !D * !SE * !SI)	0.00003	0.00003	0.00004
	(CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * !SI)	0.00058	0.00071	0.00116
	(!CK * D * SE * SI)	0.00002	0.00014	0.00059
	(!CK * D * SE * SI)	0.00003	0.00003	0.00004
	(!CK * D * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * SE * SI)	0.00059	0.00071	0.00116
	(!CK * D * SE * !SI)	0.00079	0.00091	0.00136
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	-0.00001	-0.00000	-0.00000
	(!CK * D * SE * !SI)	0.00124	0.00136	0.00181
	(!CK * D * !SE * SI)	0.00002	0.00014	0.00059
	(!CK * D * !SE * SI)	0.00003	0.00003	0.00004
	(!CK * D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * SI)	0.00059	0.00071	0.00116
	(!CK * D * !SE * !SI)	0.00002	0.00014	0.00059
	(!CK * D * !SE * !SI)	0.00003	0.00003	0.00004
	(!CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * !SI)	0.00059	0.00071	0.00116
	(!CK * !D * SE * SI)	0.00002	0.00014	0.00059
	(!CK * !D * SE * SI)	0.00003	0.00003	0.00004
	(!CK * !D * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * SE * SI)	0.00059	0.00071	0.00116
	(!CK * !D * SE * !SI)	0.00079	0.00091	0.00136
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	-0.00001	-0.00000	-0.00000
	(!CK * !D * SE * !SI)	0.00124	0.00136	0.00181
	(!CK * !D * !SE * SI)	0.00079	0.00091	0.00136
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	-0.00001	-0.00001	-0.00000
	(!CK * !D * !SE * SI)	0.00124	0.00136	0.00181
	(!CK * !D * !SE * !SI)	0.00079	0.00091	0.00136
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	-0.00001	-0.00001	-0.00000
	(!CK * !D * !SE * !SI)	0.00124	0.00136	0.00181

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

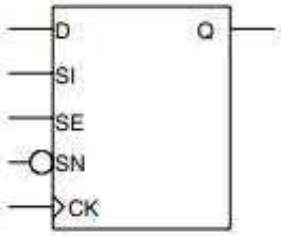
SDFFSQX1H7R	**(CK * D * SE * SI)**	0.00065	0.00079	0.00127
	(CK * D * SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * D * SE * SI)	0.00002	0.00002	0.00002
	(CK * D * SE * SI)	0.00008	0.00022	0.00070
	(CK * D * SE * !SI)	0.00065	0.00079	0.00127
	(CK * D * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(CK * D * SE * !SI)	0.00008	0.00022	0.00070
	(CK * D * !SE * SI)	0.00065	0.00079	0.00127
	(CK * D * !SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * D * !SE * SI)	0.00002	0.00002	0.00002
	(CK * D * !SE * SI)	0.00008	0.00022	0.00070
	(CK * D * !SE * !SI)	0.00065	0.00079	0.00127
	(CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * D * !SE * !SI)	0.00002	0.00002	0.00002
	(CK * D * !SE * !SI)	0.00008	0.00022	0.00070
	(CK * !D * SE * SI)	0.00065	0.00079	0.00127
	(CK * !D * SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(CK * !D * SE * SI)	0.00008	0.00022	0.00070
	(CK * !D * SE * !SI)	0.00065	0.00079	0.00127
	(CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(CK * !D * SE * !SI)	0.00008	0.00022	0.00070
	(CK * !D * !SE * SI)	0.00065	0.00079	0.00127
	(CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(CK * !D * !SE * SI)	0.00008	0.00022	0.00070
	(CK * !D * !SE * !SI)	0.00065	0.00079	0.00127
	(CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(CK * !D * !SE * !SI)	0.00008	0.00022	0.00070
	(!CK * D * SE * SI)	0.00065	0.00078	0.00127
	(!CK * D * SE * SI)	-0.00003	-0.00003	-0.00003
	(!CK * D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * SI)	0.00008	0.00021	0.00070
	(!CK * D * SE * !SI)	0.00066	0.00080	0.00128
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	0.00002	0.00002	0.00003
	(!CK * D * SE * !SI)	0.00009	0.00023	0.00071
	(!CK * D * !SE * SI)	0.00065	0.00078	0.00127
	(!CK * D * !SE * SI)	-0.00003	-0.00003	-0.00003
	(!CK * D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * SI)	0.00008	0.00021	0.00070
	(!CK * D * !SE * !SI)	0.00065	0.00078	0.00127
	(!CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * !SI)	0.00008	0.00021	0.00070
	(!CK * !D * SE * SI)	0.00065	0.00078	0.00127
	(!CK * !D * SE * SI)	-0.00003	-0.00003	-0.00003
	(!CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * SI)	0.00008	0.00021	0.00070
	(!CK * !D * SE * !SI)	0.00066	0.00080	0.00128
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00002	0.00002	0.00003
	(!CK * !D * SE * !SI)	0.00009	0.00023	0.00071
	(!CK * !D * !SE * SI)	0.00066	0.00080	0.00128
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00002	0.00002	0.00003
	(!CK * !D * !SE * SI)	0.00009	0.00023	0.00071
	(!CK * !D * !SE * !SI)	0.00066	0.00080	0.00128
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00002	0.00002	0.00003
	(!CK * !D * !SE * !SI)	0.00009	0.00023	0.00071

SDFFSQX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFSQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low set (SN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	**D**	**SE**	**SI**	**SN**	**Q**
R	**0**	**0**	**x**	**1**	**0**
R	**x**	**1**	**0**	**1**	**0**
R	**x**	**1**	**1**	**1**	**1**
R	**1**	**0**	**x**	**1**	**1**
x	**x**	**x**	**x**	**0**	**1**
x	**x**	**x**	**x**	**1**	**IQ**

Footprint

Cell Name	Area
SDFFSQX2H7R	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	SE	SI	SN	Q
SDFFSQX2H7R	0.00083	0.00067	0.00169	0.00071	0.00074	0.07771

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSQX2H7R	0.00000	1.06898	1.38850

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX2H7R	CK->Q (RR)	(D * SE * SN)	0.09552	0.25161	0.61504
	CK->Q (RR)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.09553	0.25161	0.61505
	CK->Q (RR)	(!SE * !SI * SN)	0.09553	0.25160	0.61505
	CK->Q (RR)	(!D * SI * SN)	0.09552	0.25162	0.61504
	SN->Q (FR)	(CK * D * SE * SI)	0.06465	0.21924	0.58532
	SN->Q (FR)	(CK * D * SE * !SI)	0.06465	0.21924	0.58532
	SN->Q (FR)	(CK * D * !SE * SI)	0.06465	0.21924	0.58532
	SN->Q (FR)	(CK * D * !SE * !SI)	0.06465	0.21924	0.58532
	SN->Q (FR)	(CK * !D * SE * SI)	0.06465	0.21924	0.58532
	SN->Q (FR)	(CK * !D * SE * !SI)	0.06465	0.21924	0.58532
	SN->Q (FR)	(CK * !D * !SE * SI)	0.06465	0.21924	0.58532
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.06465	0.21924	0.58532
	SN->Q (FR)	(!CK * D * SE * SI)	0.05981	0.20782	0.56987
	SN->Q (FR)	(!CK * D * SE * !SI)	0.06102	0.20967	0.57273
	SN->Q (FR)	(!CK * D * !SE * SI)	0.05981	0.20782	0.56987
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.05981	0.20782	0.56987
	SN->Q (FR)	(!CK * !D * SE * SI)	0.05981	0.20782	0.56987
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.06102	0.20967	0.57273
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.06102	0.20969	0.57344
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.06102	0.20969	0.57344

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX2H7R	CK->Q (RF)	(D * SE * SN)	0.10664	0.25469	0.55069
	CK->Q (RF)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.10664	0.25469	0.55069
	CK->Q (RF)	(!SE * !SI * SN)	0.10666	0.25471	0.55070
	CK->Q (RF)	(!D * SI * SN)	0.10666	0.25471	0.55070

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSQX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7R	**hold**	**CK (R)**	-0.09270	-0.01866	0.04582
	setup	**CK (R)**	-0.02551	0.05359	0.13573

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7R	**hold**	**CK (R)**	-0.16257	-0.08016	-0.03252
	setup	**CK (R)**	0.06156	0.12356	0.22227

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7R	**hold**	**CK (R)**	-0.07792	-0.01198	0.04907
	setup	**CK (R)**	0.09593	0.14192	0.19891

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7R	**hold**	**CK (R)**	-0.12239	-0.03863	0.03009
	setup	**CK (R)**	0.05128	0.11097	0.20181

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7R	hold	CK (R)	-0.09778	-0.02405	0.04235
	setup	CK (R)	-0.02133	0.05947	0.14284

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7R	hold	CK (R)	-0.20279	-0.10759	-0.05808
	setup	CK (R)	0.08535	0.15149	0.26434

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSQX2H7R	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX2H7R	recovery	CK (R)	-0.00282	0.05034	0.10405
	removal	CK (R)	0.05293	0.09484	0.16370

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFSQX2H7R	CK	(D * SE * SN)	0.00302	0.00315	0.00360
	CK	(D * SE * SN)	-0.00002	-0.00000	0.00000
	CK	(D * SE * SN)	-0.00003	-0.00001	0.00001
	CK	(D * SE * SN)	0.00359	0.00376	0.00417
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00302	0.00315	0.00360
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	-0.00002	-0.00000	0.00000
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	-0.00003	-0.00001	0.00000
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00362	0.00376	0.00417
	CK	(!SE * !SI * SN)	0.00302	0.00315	0.00360
	CK	(!SE * !SI * SN)	-0.00002	-0.00000	0.00000
	CK	(!SE * !SI * SN)	-0.00003	-0.00001	0.00000
	CK	(!SE * !SI * SN)	0.00362	0.00376	0.00417
	CK	(!D * SI * SN)	0.00302	0.00315	0.00360
	CK	(!D * SI * SN)	-0.00002	-0.00000	0.00000
	CK	(!D * SI * SN)	-0.00003	-0.00001	0.00001
	CK	(!D * SI * SN)	0.00359	0.00376	0.00417
	SN	(CK * D * SE * SI)	0.00383	0.00402	0.00451
	SN	(CK * D * SE * SI)	-0.00006	-0.00005	-0.00002
	SN	(CK * D * SE * SI)	-0.00001	0.00003	0.00008
	SN	(CK * D * SE * SI)	0.00324	0.00344	0.00391
	SN	(CK * D * SE * !SI)	0.00385	0.00402	0.00451
	SN	(CK * D * SE * !SI)	-0.00006	-0.00005	-0.00002
	SN	(CK * D * SE * !SI)	-0.00001	0.00004	0.00008
	SN	(CK * D * SE * !SI)	0.00323	0.00343	0.00391
	SN	(CK * D * !SE * SI)	0.00382	0.00402	0.00451
	SN	(CK * D * !SE * SI)	-0.00006	-0.00005	-0.00001
	SN	(CK * D * !SE * SI)	-0.00002	0.00004	0.00008
	SN	(CK * D * !SE * SI)	0.00324	0.00343	0.00391
	SN	(CK * D * !SE * !SI)	0.00382	0.00402	0.00451
	SN	(CK * D * !SE * !SI)	-0.00009	-0.00005	-0.00001
	SN	(CK * D * !SE * !SI)	-0.00002	0.00004	0.00008
	SN	(CK * D * !SE * !SI)	0.00324	0.00343	0.00391
	SN	(CK * !D * SE * SI)	0.00383	0.00402	0.00451
	SN	(CK * !D * SE * SI)	-0.00006	-0.00005	-0.00002
	SN	(CK * !D * SE * SI)	-0.00001	0.00003	0.00008
	SN	(CK * !D * SE * SI)	0.00324	0.00344	0.00391
	SN	(CK * !D * SE * !SI)	0.00385	0.00402	0.00451
	SN	(CK * !D * SE * !SI)	-0.00006	-0.00005	-0.00002
	SN	(CK * !D * SE * !SI)	-0.00001	0.00004	0.00008
	SN	(CK * !D * SE * !SI)	0.00323	0.00343	0.00391
	SN	(CK * !D * !SE * SI)	0.00385	0.00402	0.00451
	SN	(CK * !D * !SE * SI)	-0.00009	-0.00005	-0.00002
	SN	(CK * !D * !SE * SI)	-0.00001	0.00004	0.00008
	SN	(CK * !D * !SE * SI)	0.00324	0.00343	0.00391
	SN	(CK * !D * !SE * !SI)	0.00383	0.00402	0.00451
	SN	(CK * !D * !SE * !SI)	-0.00006	-0.00005	-0.00000
	SN	(CK * !D * !SE * !SI)	-0.00001	0.00004	0.00008
	SN	(CK * !D * !SE * !SI)	0.00324	0.00343	0.00391
	SN	(!CK * D * SE * SI)	0.00258	0.00275	0.00325
	SN	(!CK * D * SE * SI)	-0.00004	0.00000	0.00003
	SN	(!CK * D * SE * SI)	-0.00007	-0.00003	-0.00002
	SN	(!CK * D * SE * SI)	0.00210	0.00228	0.00276
	SN	(!CK * D * SE * !SI)	0.00256	0.00278	0.00330
	SN	(!CK * D * SE * !SI)	0.00001	0.00001	0.00006
	SN	(!CK * D * SE * !SI)	-0.00008	-0.00003	0.00001
	SN	(!CK * D * SE * !SI)	0.00211	0.00232	0.00282
	SN	(!CK * D * !SE * SI)	0.00258	0.00275	0.00325
	SN	(!CK * D * !SE * SI)	-0.00004	0.00000	0.00001
	SN	(!CK * D * !SE * SI)	-0.00007	-0.00003	-0.00002
	SN	(!CK * D * !SE * SI)	0.00210	0.00228	0.00276
	SN	(!CK * D * !SE * !SI)	0.00258	0.00275	0.00325
	SN	(!CK * D * !SE * !SI)	-0.00004	0.00000	0.00001
	SN	(!CK * D * !SE * !SI)	-0.00007	-0.00003	-0.00002
	SN	(!CK * D * !SE * !SI)	0.00210	0.00228	0.00276
	SN	(!CK * !D * SE * SI)	0.00258	0.00275	0.00325
	SN	(!CK * !D * SE * SI)	-0.00004	0.00000	0.00001
	SN	(!CK * !D * SE * SI)	-0.00007	-0.00003	-0.00002
	SN	(!CK * !D * SE * SI)	0.00210	0.00228	0.00276
	SN	(!CK * !D * SE * !SI)	0.00255	0.00278	0.00330
	SN	(!CK * !D * SE * !SI)	0.00001	0.00001	0.00006
	SN	(!CK * !D * SE * !SI)	-0.00008	-0.00003	0.00001
	SN	(!CK * !D * SE * !SI)	0.00211	0.00232	0.00282
	SN	(!CK * !D * !SE * SI)	0.00259	0.00278	0.00334
	SN	(!CK * !D * !SE * SI)	0.00001	0.00001	0.00005
	SN	(!CK * !D * !SE * SI)	-0.00004	-0.00003	-0.00002
	SN	(!CK * !D * !SE * SI)	0.00214	0.00232	0.00282
	SN	(!CK * !D * !SE * !SI)	0.00259	0.00278	0.00334
	SN	(!CK * !D * !SE * !SI)	0.00001	0.00001	0.00005
	SN	(!CK * !D * !SE * !SI)	-0.00004	-0.00003	-0.00002
	SN	(!CK * !D * !SE * !SI)	0.00214	0.00232	0.00282

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSQX2H7R	CK	(D * SE * SN)	0.00318	0.00329	0.00369
	CK	(D * SE * SN)	0.00000	0.00000	0.00002
	CK	(D * SE * SN)	0.00000	0.00001	0.00003
	CK	(D * SE * SN)	0.00372	0.00383	0.00424
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00318	0.00329	0.00369
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00000	0.00000	0.00002
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00000	0.00001	0.00003
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00372	0.00383	0.00424
	CK	(!SE * !SI * SN)	0.00318	0.00329	0.00369
	CK	(!SE * !SI * SN)	0.00000	0.00000	0.00002
	CK	(!SE * !SI * SN)	0.00000	0.00001	0.00003
	CK	(!SE * !SI * SN)	0.00372	0.00383	0.00423
	CK	(!D * SI * SN)	0.00318	0.00329	0.00369
	CK	(!D * SI * SN)	0.00000	0.00000	0.00002
	CK	(!D * SI * SN)	0.00000	0.00001	0.00003
	CK	(!D * SI * SN)	0.00372	0.00383	0.00423

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7R	**(D * SE * SI * SN)**	0.00131	0.00140	0.00173
	(D * SE * SI * SN)	0.00000	0.00000	0.00000
	(D * SE * SI * SN)	-0.00001	0.00000	0.00001
	(D * SE * SI * SN)	0.00188	0.00197	0.00229
	(D * SE * SI * !SN)	0.00127	0.00136	0.00168
	(D * SE * SI * !SN)	0.00000	0.00000	0.00000
	(D * SE * SI * !SN)	0.00000	0.00000	0.00001
	(D * SE * SI * !SN)	0.00185	0.00194	0.00226
	(D * SE * !SI * SN)	0.00143	0.00152	0.00184
	(D * SE * !SI * SN)	-0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00201	0.00210	0.00243
	(D * SE * !SI * !SN)	0.00258	0.00268	0.00301
	(D * SE * !SI * !SN)	-0.00004	-0.00004	-0.00003
	(D * SE * !SI * !SN)	0.00004	0.00004	0.00005
	(D * SE * !SI * !SN)	0.00308	0.00318	0.00352
	(D * !SE * SI * SN)	0.00132	0.00140	0.00173
	(D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * SI * SN)	-0.00000	0.00001	0.00001
	(D * !SE * SI * SN)	0.00188	0.00197	0.00229
	(D * !SE * SI * !SN)	0.00127	0.00136	0.00168
	(D * !SE * SI * !SN)	0.00000	0.00000	0.00001
	(D * !SE * SI * !SN)	0.00000	0.00001	0.00001
	(D * !SE * SI * !SN)	0.00185	0.00194	0.00226
	(D * !SE * !SI * SN)	0.00132	0.00140	0.00173
	(D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * !SI * SN)	-0.00000	0.00001	0.00001
	(D * !SE * !SI * SN)	0.00188	0.00197	0.00229
	(D * !SE * !SI * !SN)	0.00127	0.00136	0.00168
	(D * !SE * !SI * !SN)	0.00000	0.00000	0.00001
	(D * !SE * !SI * !SN)	0.00000	0.00001	0.00001
	(D * !SE * !SI * !SN)	0.00185	0.00194	0.00226
	(!D * SE * SI * SN)	0.00131	0.00140	0.00173
	(!D * SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * SN)	-0.00001	0.00000	0.00001
	(!D * SE * SI * SN)	0.00188	0.00197	0.00229
	(!D * SE * SI * !SN)	0.00127	0.00136	0.00168
	(!D * SE * SI * !SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * !SN)	0.00000	0.00000	0.00001
	(!D * SE * SI * !SN)	0.00185	0.00194	0.00226
	(!D * SE * !SI * SN)	0.00143	0.00152	0.00184
	(!D * SE * !SI * SN)	-0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00201	0.00210	0.00243
	(!D * SE * !SI * !SN)	0.00258	0.00268	0.00301
	(!D * SE * !SI * !SN)	-0.00004	-0.00004	-0.00003
	(!D * SE * !SI * !SN)	0.00004	0.00004	0.00005
	(!D * SE * !SI * !SN)	0.00308	0.00318	0.00352
	(!D * !SE * SI * SN)	0.00143	0.00152	0.00184
	(!D * !SE * SI * SN)	-0.00000	0.00000	0.00000
	(!D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * SI * SN)	0.00201	0.00210	0.00243
	(!D * !SE * SI * !SN)	0.00258	0.00268	0.00301
	(!D * !SE * SI * !SN)	-0.00004	-0.00004	-0.00004
	(!D * !SE * SI * !SN)	0.00003	0.00004	0.00005
	(!D * !SE * SI * !SN)	0.00308	0.00318	0.00352
	(!D * !SE * !SI * SN)	0.00143	0.00152	0.00184
	(!D * !SE * !SI * SN)	-0.00000	0.00000	0.00001
	(!D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00201	0.00210	0.00243
	(!D * !SE * !SI * !SN)	0.00258	0.00268	0.00301
	(!D * !SE * !SI * !SN)	-0.00004	-0.00004	-0.00004
	(!D * !SE * !SI * !SN)	0.00003	0.00004	0.00005
	(!D * !SE * !SI * !SN)	0.00308	0.00318	0.00352

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7R	**(D * SE * SI * SN)**	0.00356	0.00365	0.00398
	(D * SE * SI * SN)	0.00000	0.00000	0.00000
	(D * SE * SI * SN)	0.00004	0.00004	0.00005
	(D * SE * SI * SN)	0.00291	0.00300	0.00333
	(D * SE * SI * !SN)	0.00221	0.00231	0.00267
	(D * SE * SI * !SN)	-0.00000	-0.00000	-0.00000
	(D * SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(D * SE * SI * !SN)	0.00164	0.00173	0.00209
	(D * SE * !SI * SN)	0.00311	0.00321	0.00360
	(D * SE * !SI * SN)	0.00004	0.00005	0.00006
	(D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00262	0.00272	0.00310
	(D * SE * !SI * !SN)	0.00228	0.00239	0.00278
	(D * SE * !SI * !SN)	0.00007	0.00007	0.00008
	(D * SE * !SI * !SN)	-0.00005	-0.00004	-0.00004
	(D * SE * !SI * !SN)	0.00186	0.00197	0.00235
	(D * !SE * SI * SN)	0.00356	0.00365	0.00398
	(D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * SI * SN)	0.00004	0.00004	0.00005
	(D * !SE * SI * SN)	0.00291	0.00300	0.00333
	(D * !SE * SI * !SN)	0.00221	0.00232	0.00267
	(D * !SE * SI * !SN)	-0.00001	-0.00000	-0.00000
	(D * !SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(D * !SE * SI * !SN)	0.00164	0.00173	0.00209
	(D * !SE * !SI * SN)	0.00356	0.00365	0.00398
	(D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * !SI * SN)	0.00004	0.00004	0.00005
	(D * !SE * !SI * SN)	0.00291	0.00300	0.00333
	(D * !SE * !SI * !SN)	0.00221	0.00232	0.00267
	(D * !SE * !SI * !SN)	-0.00000	-0.00000	-0.00000
	(D * !SE * !SI * !SN)	-0.00000	-0.00000	0.00000
	(D * !SE * !SI * !SN)	0.00163	0.00173	0.00209
	(!D * SE * SI * SN)	0.00356	0.00365	0.00398
	(!D * SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * SN)	0.00003	0.00004	0.00005
	(!D * SE * SI * SN)	0.00291	0.00300	0.00333
	(!D * SE * SI * !SN)	0.00221	0.00231	0.00267
	(!D * SE * SI * !SN)	-0.00000	-0.00000	-0.00000
	(!D * SE * SI * !SN)	-0.00000	-0.00000	0.00000
	(!D * SE * SI * !SN)	0.00164	0.00173	0.00209
	(!D * SE * !SI * SN)	0.00311	0.00321	0.00360
	(!D * SE * !SI * SN)	0.00004	0.00005	0.00006
	(!D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00261	0.00272	0.00310
	(!D * SE * !SI * !SN)	0.00228	0.00239	0.00278
	(!D * SE * !SI * !SN)	0.00007	0.00007	0.00008
	(!D * SE * !SI * !SN)	-0.00005	-0.00004	-0.00004
	(!D * SE * !SI * !SN)	0.00186	0.00197	0.00235
	(!D * !SE * SI * SN)	0.00311	0.00321	0.00359
	(!D * !SE * SI * SN)	0.00004	0.00005	0.00005
	(!D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * SI * SN)	0.00261	0.00272	0.00310
	(!D * !SE * SI * !SN)	0.00228	0.00239	0.00278
	(!D * !SE * SI * !SN)	0.00007	0.00008	0.00009
	(!D * !SE * SI * !SN)	-0.00005	-0.00004	-0.00003
	(!D * !SE * SI * !SN)	0.00186	0.00197	0.00235
	(!D * !SE * !SI * SN)	0.00311	0.00321	0.00359
	(!D * !SE * !SI * SN)	0.00004	0.00005	0.00005
	(!D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00261	0.00272	0.00310
	(!D * !SE * !SI * !SN)	0.00228	0.00239	0.00278
	(!D * !SE * !SI * !SN)	0.00007	0.00008	0.00009
	(!D * !SE * !SI * !SN)	-0.00005	-0.00004	-0.00003
	(!D * !SE * !SI * !SN)	0.00186	0.00197	0.00235

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7R	**(CK * SE * SI * SN)**	-0.00011	-0.00010	-0.00009
	(CK * SE * SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * SI * SN)	0.00001	0.00001	0.00001
	(CK * SE * SI * SN)	0.00022	0.00022	0.00023
	(CK * SE * SI * !SN)	-0.00011	-0.00010	-0.00009
	(CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * SI * !SN)	0.00001	0.00001	0.00001
	(CK * SE * SI * !SN)	0.00022	0.00022	0.00023
	(CK * SE * !SI * SN)	-0.00011	-0.00010	-0.00009
	(CK * SE * !SI * SN)	-0.00002	-0.00001	-0.00001
	(CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * SN)	0.00022	0.00022	0.00022
	(CK * SE * !SI * !SN)	-0.00011	-0.00010	-0.00009
	(CK * SE * !SI * !SN)	-0.00002	-0.00001	-0.00001
	(CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * !SN)	0.00022	0.00022	0.00022
	(CK * !SE * SI * SN)	0.00017	0.00022	0.00043
	(CK * !SE * SI * SN)	0.00011	0.00011	0.00011
	(CK * !SE * SI * SN)	-0.00010	-0.00009	-0.00009
	(CK * !SE * SI * SN)	0.00108	0.00113	0.00134
	(CK * !SE * SI * !SN)	0.00017	0.00022	0.00043
	(CK * !SE * SI * !SN)	0.00011	0.00012	0.00012
	(CK * !SE * SI * !SN)	-0.00009	-0.00009	-0.00009
	(CK * !SE * SI * !SN)	0.00109	0.00114	0.00134
	(CK * !SE * !SI * SN)	0.00017	0.00022	0.00043
	(CK * !SE * !SI * SN)	0.00011	0.00011	0.00012
	(CK * !SE * !SI * SN)	-0.00010	-0.00010	-0.00009
	(CK * !SE * !SI * SN)	0.00109	0.00113	0.00134
	(CK * !SE * !SI * !SN)	0.00017	0.00022	0.00043
	(CK * !SE * !SI * !SN)	0.00011	0.00012	0.00012
	(CK * !SE * !SI * !SN)	-0.00009	-0.00009	-0.00009
	(CK * !SE * !SI * !SN)	0.00109	0.00114	0.00134
	(!CK * SE * SI * SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * SI * SN)	0.00001	0.00001	0.00001
	(!CK * SE * SI * SN)	0.00022	0.00022	0.00023
	(!CK * SE * SI * !SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * SI * !SN)	0.00001	0.00001	0.00001
	(!CK * SE * SI * !SN)	0.00022	0.00022	0.00023
	(!CK * SE * !SI * SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * !SI * SN)	-0.00002	-0.00001	-0.00001
	(!CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * SN)	0.00022	0.00022	0.00022
	(!CK * SE * !SI * !SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * !SI * !SN)	-0.00002	-0.00001	-0.00001
	(!CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * !SN)	0.00022	0.00022	0.00022
	(!CK * !SE * SI * SN)	0.00166	0.00171	0.00192
	(!CK * !SE * SI * SN)	0.00007	0.00007	0.00008
	(!CK * !SE * SI * SN)	-0.00006	-0.00006	-0.00005
	(!CK * !SE * SI * SN)	0.00250	0.00255	0.00275
	(!CK * !SE * SI * !SN)	0.00172	0.00178	0.00198
	(!CK * !SE * SI * !SN)	0.00007	0.00007	0.00008
	(!CK * !SE * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * SI * !SN)	0.00255	0.00261	0.00282
	(!CK * !SE * !SI * SN)	0.00166	0.00171	0.00192
	(!CK * !SE * !SI * SN)	0.00007	0.00007	0.00008
	(!CK * !SE * !SI * SN)	-0.00006	-0.00006	-0.00005
	(!CK * !SE * !SI * SN)	0.00250	0.00255	0.00275
	(!CK * !SE * !SI * !SN)	0.00173	0.00178	0.00199
	(!CK * !SE * !SI * !SN)	0.00005	0.00006	0.00006
	(!CK * !SE * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * !SI * !SN)	0.00254	0.00260	0.00280

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7R	**(CK * SE * SI * SN)**	0.00011	0.00011	0.00011
	(CK * SE * SI * SN)	0.00001	0.00001	0.00001
	(CK * SE * SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * SI * SN)	-0.00022	-0.00021	-0.00021
	(CK * SE * SI * !SN)	0.00011	0.00011	0.00011
	(CK * SE * SI * !SN)	0.00001	0.00001	0.00001
	(CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * SI * !SN)	-0.00022	-0.00021	-0.00021
	(CK * SE * !SI * SN)	0.00011	0.00011	0.00012
	(CK * SE * !SI * SN)	0.00001	0.00001	0.00002
	(CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * SN)	-0.00022	-0.00021	-0.00021
	(CK * SE * !SI * !SN)	0.00011	0.00011	0.00012
	(CK * SE * !SI * !SN)	0.00001	0.00001	0.00002
	(CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * !SN)	-0.00022	-0.00021	-0.00021
	(CK * !SE * SI * SN)	0.00125	0.00131	0.00153
	(CK * !SE * SI * SN)	-0.00011	-0.00011	-0.00011
	(CK * !SE * SI * SN)	0.00009	0.00010	0.00010
	(CK * !SE * SI * SN)	0.00033	0.00039	0.00061
	(CK * !SE * SI * !SN)	0.00125	0.00131	0.00153
	(CK * !SE * SI * !SN)	-0.00012	-0.00012	-0.00011
	(CK * !SE * SI * !SN)	0.00009	0.00009	0.00009
	(CK * !SE * SI * !SN)	0.00034	0.00039	0.00062
	(CK * !SE * !SI * SN)	0.00125	0.00131	0.00153
	(CK * !SE * !SI * SN)	-0.00012	-0.00011	-0.00011
	(CK * !SE * !SI * SN)	0.00009	0.00010	0.00010
	(CK * !SE * !SI * SN)	0.00033	0.00039	0.00061
	(CK * !SE * !SI * !SN)	0.00125	0.00131	0.00153
	(CK * !SE * !SI * !SN)	-0.00012	-0.00012	-0.00011
	(CK * !SE * !SI * !SN)	0.00009	0.00009	0.00009
	(CK * !SE * !SI * !SN)	0.00033	0.00039	0.00062
	(!CK * SE * SI * SN)	0.00011	0.00011	0.00011
	(!CK * SE * SI * SN)	0.00001	0.00001	0.00001
	(!CK * SE * SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * SI * SN)	-0.00022	-0.00021	-0.00021
	(!CK * SE * SI * !SN)	0.00011	0.00011	0.00011
	(!CK * SE * SI * !SN)	0.00001	0.00001	0.00001
	(!CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * SI * !SN)	-0.00022	-0.00021	-0.00021
	(!CK * SE * !SI * SN)	0.00011	0.00011	0.00012
	(!CK * SE * !SI * SN)	0.00001	0.00001	0.00002
	(!CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * SN)	-0.00022	-0.00021	-0.00021
	(!CK * SE * !SI * !SN)	0.00011	0.00011	0.00012
	(!CK * SE * !SI * !SN)	0.00001	0.00001	0.00002
	(!CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * !SN)	-0.00022	-0.00021	-0.00021
	(!CK * !SE * SI * SN)	0.00224	0.00231	0.00253
	(!CK * !SE * SI * SN)	-0.00008	-0.00007	-0.00007
	(!CK * !SE * SI * SN)	0.00005	0.00006	0.00006
	(!CK * !SE * SI * SN)	0.00140	0.00146	0.00169
	(!CK * !SE * SI * !SN)	0.00147	0.00153	0.00176
	(!CK * !SE * SI * !SN)	-0.00002	-0.00002	-0.00001
	(!CK * !SE * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * SI * !SN)	0.00076	0.00082	0.00104
	(!CK * !SE * !SI * SN)	0.00224	0.00230	0.00253
	(!CK * !SE * !SI * SN)	-0.00008	-0.00007	-0.00007
	(!CK * !SE * !SI * SN)	0.00005	0.00006	0.00006
	(!CK * !SE * !SI * SN)	0.00140	0.00146	0.00169
	(!CK * !SE * !SI * !SN)	0.00147	0.00153	0.00176
	(!CK * !SE * !SI * !SN)	-0.00002	-0.00002	-0.00001
	(!CK * !SE * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * !SI * !SN)	0.00076	0.00082	0.00104

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7R	**(CK * D * SI * SN)**	-0.00011	0.00001	0.00042
	(CK * D * SI * SN)	0.00001	0.00001	0.00001
	(CK * D * SI * SN)	-0.00002	-0.00002	-0.00000
	(CK * D * SI * SN)	0.00093	0.00105	0.00147
	(CK * D * SI * !SN)	-0.00011	0.00001	0.00042
	(CK * D * SI * !SN)	0.00001	0.00001	0.00001
	(CK * D * SI * !SN)	-0.00002	-0.00002	-0.00000
	(CK * D * SI * !SN)	0.00093	0.00105	0.00147
	(CK * D * !SI * SN)	0.00107	0.00118	0.00158
	(CK * D * !SI * SN)	-0.00007	-0.00006	-0.00005
	(CK * D * !SI * SN)	0.00004	0.00005	0.00007
	(CK * D * !SI * SN)	0.00170	0.00180	0.00220
	(CK * D * !SI * !SN)	0.00107	0.00119	0.00158
	(CK * D * !SI * !SN)	-0.00007	-0.00006	-0.00006
	(CK * D * !SI * !SN)	0.00004	0.00005	0.00005
	(CK * D * !SI * !SN)	0.00170	0.00181	0.00220
	(CK * !D * SI * SN)	-0.00012	0.00009	0.00087
	(CK * !D * SI * SN)	0.00009	0.00010	0.00010
	(CK * !D * SI * SN)	-0.00009	-0.00009	-0.00008
	(CK * !D * SI * SN)	0.00137	0.00159	0.00238
	(CK * !D * SI * !SN)	-0.00012	0.00009	0.00087
	(CK * !D * SI * !SN)	0.00009	0.00010	0.00010
	(CK * !D * SI * !SN)	-0.00009	-0.00009	-0.00008
	(CK * !D * SI * !SN)	0.00137	0.00159	0.00238
	(CK * !D * !SI * SN)	-0.00011	0.00001	0.00043
	(CK * !D * !SI * SN)	0.00001	0.00002	0.00002
	(CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SI * SN)	0.00096	0.00109	0.00151
	(CK * !D * !SI * !SN)	-0.00011	0.00001	0.00043
	(CK * !D * !SI * !SN)	0.00001	0.00002	0.00002
	(CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00000
	(CK * !D * !SI * !SN)	0.00096	0.00109	0.00151
	(!CK * D * SI * SN)	-0.00011	0.00001	0.00042
	(!CK * D * SI * SN)	0.00001	0.00001	0.00001
	(!CK * D * SI * SN)	-0.00002	-0.00002	-0.00000
	(!CK * D * SI * SN)	0.00093	0.00105	0.00147
	(!CK * D * SI * !SN)	-0.00011	0.00001	0.00042
	(!CK * D * SI * !SN)	0.00001	0.00001	0.00001
	(!CK * D * SI * !SN)	-0.00002	-0.00002	-0.00000
	(!CK * D * SI * !SN)	0.00093	0.00105	0.00147
	(!CK * D * !SI * SN)	0.00206	0.00218	0.00257
	(!CK * D * !SI * SN)	-0.00003	-0.00002	-0.00002
	(!CK * D * !SI * SN)	0.00000	0.00001	0.00003
	(!CK * D * !SI * SN)	0.00277	0.00288	0.00327
	(!CK * D * !SI * !SN)	0.00129	0.00141	0.00180
	(!CK * D * !SI * !SN)	0.00004	0.00004	0.00005
	(!CK * D * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * D * !SI * !SN)	0.00213	0.00224	0.00263
	(!CK * !D * SI * SN)	0.00137	0.00158	0.00236
	(!CK * !D * SI * SN)	0.00005	0.00005	0.00005
	(!CK * !D * SI * SN)	-0.00005	-0.00005	-0.00004
	(!CK * !D * SI * SN)	0.00278	0.00301	0.00379
	(!CK * !D * SI * !SN)	0.00144	0.00165	0.00243
	(!CK * !D * SI * !SN)	0.00006	0.00006	0.00006
	(!CK * !D * SI * !SN)	-0.00001	-0.00000	0.00000
	(!CK * !D * SI * !SN)	0.00288	0.00310	0.00388
	(!CK * !D * !SI * SN)	-0.00011	0.00001	0.00043
	(!CK * !D * !SI * SN)	0.00001	0.00002	0.00002
	(!CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SI * SN)	0.00096	0.00109	0.00151
	(!CK * !D * !SI * !SN)	-0.00011	0.00001	0.00043
	(!CK * !D * !SI * !SN)	0.00001	0.00002	0.00002
	(!CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !SI * !SN)	0.00096	0.00108	0.00151

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7R	**(CK * D * SI * SN)**	0.00091	0.00105	0.00151
	(CK * D * SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * D * SI * SN)	0.00001	0.00002	0.00002
	(CK * D * SI * SN)	-0.00013	0.00000	0.00046
	(CK * D * SI * !SN)	0.00091	0.00105	0.00151
	(CK * D * SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * D * SI * !SN)	0.00001	0.00002	0.00002
	(CK * D * SI * !SN)	-0.00013	0.00000	0.00046
	(CK * D * !SI * SN)	0.00124	0.00138	0.00186
	(CK * D * !SI * SN)	0.00005	0.00006	0.00007
	(CK * D * !SI * SN)	-0.00005	-0.00005	-0.00004
	(CK * D * !SI * SN)	0.00061	0.00076	0.00124
	(CK * D * !SI * !SN)	0.00124	0.00139	0.00186
	(CK * D * !SI * !SN)	0.00006	0.00007	0.00007
	(CK * D * !SI * !SN)	-0.00005	-0.00005	-0.00004
	(CK * D * !SI * !SN)	0.00062	0.00076	0.00124
	(CK * !D * SI * SN)	0.00172	0.00196	0.00280
	(CK * !D * SI * SN)	-0.00010	-0.00010	-0.00009
	(CK * !D * SI * SN)	0.00008	0.00009	0.00010
	(CK * !D * SI * SN)	0.00021	0.00045	0.00130
	(CK * !D * SI * !SN)	0.00172	0.00196	0.00281
	(CK * !D * SI * !SN)	-0.00010	-0.00010	-0.00009
	(CK * !D * SI * !SN)	0.00008	0.00009	0.00009
	(CK * !D * SI * !SN)	0.00021	0.00046	0.00130
	(CK * !D * !SI * SN)	0.00089	0.00103	0.00149
	(CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00001
	(CK * !D * !SI * SN)	0.00002	0.00002	0.00002
	(CK * !D * !SI * SN)	-0.00019	-0.00006	0.00041
	(CK * !D * !SI * !SN)	0.00089	0.00103	0.00149
	(CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00001
	(CK * !D * !SI * !SN)	0.00000	0.00002	0.00002
	(CK * !D * !SI * !SN)	-0.00018	-0.00005	0.00041
	(!CK * D * SI * SN)	0.00091	0.00105	0.00151
	(!CK * D * SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * SI * SN)	0.00001	0.00002	0.00002
	(!CK * D * SI * SN)	-0.00013	0.00000	0.00046
	(!CK * D * SI * !SN)	0.00091	0.00105	0.00151
	(!CK * D * SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * SI * !SN)	0.00001	0.00002	0.00003
	(!CK * D * SI * !SN)	-0.00013	-0.00000	0.00046
	(!CK * D * !SI * SN)	0.00274	0.00287	0.00335
	(!CK * D * !SI * SN)	0.00002	0.00002	0.00003
	(!CK * D * !SI * SN)	-0.00002	-0.00001	0.00000
	(!CK * D * !SI * SN)	0.00203	0.00217	0.00265
	(!CK * D * !SI * !SN)	0.00277	0.00290	0.00333
	(!CK * D * !SI * !SN)	0.00003	0.00005	0.00006
	(!CK * D * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * D * !SI * !SN)	0.00214	0.00227	0.00271
	(!CK * !D * SI * SN)	0.00271	0.00295	0.00381
	(!CK * !D * SI * SN)	-0.00005	-0.00005	-0.00005
	(!CK * !D * SI * SN)	0.00004	0.00005	0.00006
	(!CK * !D * SI * SN)	0.00129	0.00153	0.00238
	(!CK * !D * SI * !SN)	0.00194	0.00218	0.00303
	(!CK * !D * SI * !SN)	-0.00001	0.00001	0.00002
	(!CK * !D * SI * !SN)	0.00000	0.00000	0.00001
	(!CK * !D * SI * !SN)	0.00065	0.00088	0.00173
	(!CK * !D * !SI * SN)	0.00089	0.00103	0.00149
	(!CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !SI * SN)	0.00002	0.00002	0.00002
	(!CK * !D * !SI * SN)	-0.00019	-0.00006	0.00041
	(!CK * !D * !SI * !SN)	0.00090	0.00103	0.00149
	(!CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !SI * !SN)	0.00002	0.00002	0.00002
	(!CK * !D * !SI * !SN)	-0.00019	-0.00006	0.00041

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7R	**(CK * D * SE * SN)**	0.00002	0.00005	0.00019
	(CK * D * SE * SN)	0.00009	0.00009	0.00010
	(CK * D * SE * SN)	-0.00009	-0.00009	-0.00008
	(CK * D * SE * SN)	0.00089	0.00092	0.00105
	(CK * D * SE * !SN)	0.00002	0.00006	0.00019
	(CK * D * SE * !SN)	0.00009	0.00009	0.00010
	(CK * D * SE * !SN)	-0.00008	-0.00008	-0.00008
	(CK * D * SE * !SN)	0.00089	0.00092	0.00105
	(CK * D * !SE * SN)	-0.00011	-0.00010	-0.00010
	(CK * D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(CK * D * !SE * SN)	0.00001	0.00001	0.00001
	(CK * D * !SE * SN)	0.00024	0.00024	0.00025
	(CK * D * !SE * !SN)	-0.00011	-0.00010	-0.00010
	(CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(CK * D * !SE * !SN)	0.00001	0.00001	0.00001
	(CK * D * !SE * !SN)	0.00024	0.00024	0.00025
	(CK * !D * SE * SN)	0.00002	0.00005	0.00019
	(CK * !D * SE * SN)	0.00008	0.00009	0.00010
	(CK * !D * SE * SN)	-0.00010	-0.00009	-0.00009
	(CK * !D * SE * SN)	0.00089	0.00092	0.00105
	(CK * !D * SE * !SN)	0.00002	0.00006	0.00019
	(CK * !D * SE * !SN)	0.00009	0.00009	0.00009
	(CK * !D * SE * !SN)	-0.00009	-0.00008	-0.00008
	(CK * !D * SE * !SN)	0.00089	0.00092	0.00105
	(CK * !D * !SE * SN)	-0.00017	-0.00016	-0.00016
	(CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(CK * !D * !SE * SN)	0.00000	0.00001	0.00001
	(CK * !D * !SE * SN)	0.00018	0.00018	0.00019
	(CK * !D * !SE * !SN)	-0.00017	-0.00016	-0.00016
	(CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(CK * !D * !SE * !SN)	0.00000	0.00001	0.00001
	(CK * !D * !SE * !SN)	0.00018	0.00018	0.00019
	(!CK * D * SE * SN)	0.00151	0.00154	0.00168
	(!CK * D * SE * SN)	0.00005	0.00005	0.00006
	(!CK * D * SE * SN)	-0.00005	-0.00005	-0.00004
	(!CK * D * SE * SN)	0.00230	0.00234	0.00247
	(!CK * D * SE * !SN)	0.00156	0.00161	0.00175
	(!CK * D * SE * !SN)	0.00005	0.00005	0.00006
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00236	0.00240	0.00254
	(!CK * D * !SE * SN)	-0.00011	-0.00010	-0.00010
	(!CK * D * !SE * SN)	-0.00001	-0.00001	-0.00000
	(!CK * D * !SE * SN)	0.00001	0.00001	0.00001
	(!CK * D * !SE * SN)	0.00024	0.00024	0.00025
	(!CK * D * !SE * !SN)	-0.00011	-0.00010	-0.00010
	(!CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * D * !SE * !SN)	0.00001	0.00001	0.00001
	(!CK * D * !SE * !SN)	0.00024	0.00024	0.00025
	(!CK * !D * SE * SN)	0.00151	0.00155	0.00168
	(!CK * !D * SE * SN)	0.00004	0.00005	0.00005
	(!CK * !D * SE * SN)	-0.00006	-0.00005	-0.00005
	(!CK * !D * SE * SN)	0.00230	0.00234	0.00247
	(!CK * !D * SE * !SN)	0.00158	0.00161	0.00175
	(!CK * !D * SE * !SN)	0.00003	0.00003	0.00004
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00234	0.00238	0.00252
	(!CK * !D * !SE * SN)	-0.00017	-0.00016	-0.00016
	(!CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !SE * SN)	0.00000	0.00001	0.00001
	(!CK * !D * !SE * SN)	0.00018	0.00018	0.00019
	(!CK * !D * !SE * !SN)	-0.00017	-0.00016	-0.00016
	(!CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !SE * !SN)	0.00000	0.00001	0.00001
	(!CK * !D * !SE * !SN)	0.00018	0.00018	0.00019

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7R	**(CK * D * SE * SN)**	0.00132	0.00136	0.00151
	(CK * D * SE * SN)	-0.00010	-0.00009	-0.00009
	(CK * D * SE * SN)	0.00008	0.00009	0.00009
	(CK * D * SE * SN)	0.00045	0.00050	0.00065
	(CK * D * SE * !SN)	0.00132	0.00136	0.00151
	(CK * D * SE * !SN)	-0.00010	-0.00009	-0.00009
	(CK * D * SE * !SN)	0.00008	0.00008	0.00008
	(CK * D * SE * !SN)	0.00046	0.00050	0.00065
	(CK * D * !SE * SN)	0.00011	0.00011	0.00011
	(CK * D * !SE * SN)	0.00001	0.00001	0.00001
	(CK * D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(CK * D * !SE * SN)	-0.00024	-0.00023	-0.00023
	(CK * D * !SE * !SN)	0.00011	0.00011	0.00011
	(CK * D * !SE * !SN)	0.00001	0.00001	0.00001
	(CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(CK * D * !SE * !SN)	-0.00024	-0.00023	-0.00023
	(CK * !D * SE * SN)	0.00132	0.00136	0.00151
	(CK * !D * SE * SN)	-0.00010	-0.00009	-0.00008
	(CK * !D * SE * SN)	0.00009	0.00009	0.00010
	(CK * !D * SE * SN)	0.00045	0.00049	0.00065
	(CK * !D * SE * !SN)	0.00132	0.00136	0.00151
	(CK * !D * SE * !SN)	-0.00009	-0.00009	-0.00009
	(CK * !D * SE * !SN)	0.00008	0.00008	0.00009
	(CK * !D * SE * !SN)	0.00046	0.00050	0.00065
	(CK * !D * !SE * SN)	0.00017	0.00017	0.00018
	(CK * !D * !SE * SN)	0.00001	0.00001	0.00001
	(CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SE * SN)	-0.00018	-0.00017	-0.00017
	(CK * !D * !SE * !SN)	0.00017	0.00017	0.00018
	(CK * !D * !SE * !SN)	0.00001	0.00001	0.00001
	(CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SE * !SN)	-0.00018	-0.00017	-0.00017
	(!CK * D * SE * SN)	0.00231	0.00235	0.00251
	(!CK * D * SE * SN)	-0.00005	-0.00005	-0.00005
	(!CK * D * SE * SN)	0.00004	0.00005	0.00005
	(!CK * D * SE * SN)	0.00152	0.00157	0.00173
	(!CK * D * SE * !SN)	0.00154	0.00159	0.00174
	(!CK * D * SE * !SN)	0.00001	0.00001	0.00002
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00088	0.00093	0.00108
	(!CK * D * !SE * SN)	0.00011	0.00011	0.00011
	(!CK * D * !SE * SN)	0.00000	0.00001	0.00001
	(!CK * D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * !SE * SN)	-0.00024	-0.00023	-0.00023
	(!CK * D * !SE * !SN)	0.00011	0.00011	0.00011
	(!CK * D * !SE * !SN)	0.00000	0.00001	0.00001
	(!CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * !SE * !SN)	-0.00024	-0.00023	-0.00023
	(!CK * !D * SE * SN)	0.00231	0.00236	0.00251
	(!CK * !D * SE * SN)	-0.00005	-0.00005	-0.00004
	(!CK * !D * SE * SN)	0.00005	0.00005	0.00006
	(!CK * !D * SE * SN)	0.00152	0.00156	0.00173
	(!CK * !D * SE * !SN)	0.00154	0.00159	0.00174
	(!CK * !D * SE * !SN)	0.00000	0.00001	0.00002
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00088	0.00093	0.00108
	(!CK * !D * !SE * SN)	0.00017	0.00017	0.00018
	(!CK * !D * !SE * SN)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00000
	(!CK * !D * !SE * SN)	-0.00018	-0.00017	-0.00017
	(!CK * !D * !SE * !SN)	0.00017	0.00017	0.00018
	(!CK * !D * !SE * !SN)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00000
	(!CK * !D * !SE * !SN)	-0.00018	-0.00017	-0.00017

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX2H7R	**(CK * D * SE * SI)**	0.00002	0.00015	0.00060
	(CK * D * SE * SI)	0.00003	0.00003	0.00003
	(CK * D * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * D * SE * SI)	0.00060	0.00073	0.00118
	(CK * D * SE * !SI)	0.00002	0.00015	0.00060
	(CK * D * SE * !SI)	0.00003	0.00003	0.00003
	(CK * D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * D * SE * !SI)	0.00060	0.00073	0.00118
	(CK * D * !SE * SI)	0.00002	0.00015	0.00060
	(CK * D * !SE * SI)	0.00003	0.00003	0.00003
	(CK * D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * D * !SE * SI)	0.00060	0.00073	0.00118
	(CK * D * !SE * !SI)	0.00002	0.00015	0.00060
	(CK * D * !SE * !SI)	0.00003	0.00003	0.00003
	(CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * D * !SE * !SI)	0.00060	0.00073	0.00118
	(CK * !D * SE * SI)	0.00002	0.00015	0.00060
	(CK * !D * SE * SI)	0.00003	0.00003	0.00003
	(CK * !D * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * SE * SI)	0.00060	0.00073	0.00118
	(CK * !D * SE * !SI)	0.00002	0.00015	0.00060
	(CK * !D * SE * !SI)	0.00003	0.00003	0.00003
	(CK * !D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * SE * !SI)	0.00060	0.00073	0.00118
	(CK * !D * !SE * SI)	0.00002	0.00015	0.00060
	(CK * !D * !SE * SI)	0.00003	0.00003	0.00003
	(CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * SI)	0.00060	0.00073	0.00118
	(CK * !D * !SE * !SI)	0.00002	0.00015	0.00060
	(CK * !D * !SE * !SI)	0.00003	0.00003	0.00003
	(CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * !SI)	0.00060	0.00073	0.00118
	(!CK * D * SE * SI)	0.00003	0.00015	0.00060
	(!CK * D * SE * SI)	0.00003	0.00003	0.00004
	(!CK * D * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * SE * SI)	0.00061	0.00073	0.00118
	(!CK * D * SE * !SI)	0.00082	0.00095	0.00139
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!CK * D * SE * !SI)	0.00128	0.00140	0.00184
	(!CK * D * !SE * SI)	0.00003	0.00015	0.00060
	(!CK * D * !SE * SI)	0.00003	0.00003	0.00004
	(!CK * D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * SI)	0.00061	0.00073	0.00118
	(!CK * D * !SE * !SI)	0.00003	0.00015	0.00060
	(!CK * D * !SE * !SI)	0.00003	0.00003	0.00004
	(!CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * !SI)	0.00061	0.00073	0.00118
	(!CK * !D * SE * SI)	0.00003	0.00015	0.00060
	(!CK * !D * SE * SI)	0.00003	0.00003	0.00004
	(!CK * !D * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * SE * SI)	0.00061	0.00073	0.00118
	(!CK * !D * SE * !SI)	0.00082	0.00094	0.00139
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	-0.00000	-0.00000	-0.00000
	(!CK * !D * SE * !SI)	0.00128	0.00140	0.00184
	(!CK * !D * !SE * SI)	0.00082	0.00095	0.00139
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	-0.00000	-0.00000	-0.00000
	(!CK * !D * !SE * SI)	0.00128	0.00140	0.00184
	(!CK * !D * !SE * !SI)	0.00082	0.00095	0.00139
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	-0.00000	-0.00000	-0.00000
	(!CK * !D * !SE * !SI)	0.00128	0.00140	0.00184

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

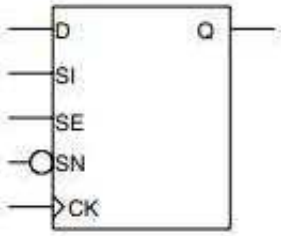
SDFFSQX2H7R	**(CK * D * SE * SI)**	0.00066	0.00080	0.00128
	(CK * D * SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * D * SE * SI)	0.00002	0.00002	0.00002
	(CK * D * SE * SI)	0.00008	0.00022	0.00069
	(CK * D * SE * !SI)	0.00066	0.00080	0.00128
	(CK * D * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(CK * D * SE * !SI)	0.00008	0.00022	0.00069
	(CK * D * !SE * SI)	0.00066	0.00080	0.00128
	(CK * D * !SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * D * !SE * SI)	0.00002	0.00002	0.00002
	(CK * D * !SE * SI)	0.00008	0.00022	0.00069
	(CK * D * !SE * !SI)	0.00066	0.00080	0.00128
	(CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * D * !SE * !SI)	0.00002	0.00002	0.00002
	(CK * D * !SE * !SI)	0.00008	0.00022	0.00069
	(CK * !D * SE * SI)	0.00066	0.00080	0.00128
	(CK * !D * SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(CK * !D * SE * SI)	0.00008	0.00022	0.00069
	(CK * !D * SE * !SI)	0.00066	0.00080	0.00128
	(CK * !D * SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(CK * !D * SE * !SI)	0.00008	0.00022	0.00069
	(CK * !D * !SE * SI)	0.00066	0.00080	0.00128
	(CK * !D * !SE * SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(CK * !D * !SE * SI)	0.00008	0.00022	0.00069
	(CK * !D * !SE * !SI)	0.00066	0.00080	0.00128
	(CK * !D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	(CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(CK * !D * !SE * !SI)	0.00008	0.00022	0.00069
	(!CK * D * SE * SI)	0.00066	0.00079	0.00127
	(!CK * D * SE * SI)	-0.00003	-0.00003	-0.00003
	(!CK * D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * SI)	0.00007	0.00021	0.00069
	(!CK * D * SE * !SI)	0.00067	0.00081	0.00128
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * !SI)	0.00009	0.00022	0.00070
	(!CK * D * !SE * SI)	0.00066	0.00079	0.00127
	(!CK * D * !SE * SI)	-0.00003	-0.00003	-0.00003
	(!CK * D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * SI)	0.00007	0.00021	0.00069
	(!CK * D * !SE * !SI)	0.00066	0.00079	0.00127
	(!CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00003
	(!CK * D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * !SI)	0.00007	0.00021	0.00069
	(!CK * !D * SE * SI)	0.00066	0.00079	0.00127
	(!CK * !D * SE * SI)	-0.00003	-0.00003	-0.00003
	(!CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * SI)	0.00007	0.00021	0.00069
	(!CK * !D * SE * !SI)	0.00067	0.00081	0.00128
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * !SI)	0.00009	0.00022	0.00070
	(!CK * !D * !SE * SI)	0.00067	0.00081	0.00128
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * SI)	0.00009	0.00022	0.00070
	(!CK * !D * !SE * !SI)	0.00067	0.00081	0.00128
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * !SI)	0.00009	0.00022	0.00070

SDFFSQX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The SDFFSQ cell is a high-speed, positive edge-triggered, static D-type flip-flop with scan input (SI), active-high scan enable (SE), and asynchronous active-low set (SN). The cell has a single output (Q).



Truth Table

INPUT					OUTPUT
CK	D	SE	SI	SN	Q
R	0	0	x	1	0
R	x	1	0	1	0
R	x	1	1	1	1
R	1	0	x	1	1
x	x	x	x	0	1
x	x	x	x	1	IQ

Footprint

Cell Name	Area
SDFFSQX3H7R	10.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	SE	SI	SN	Q
SDFFSQX3H7R	0.00083	0.00068	0.00166	0.00069	0.00075	0.12063

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSQX3H7R	0.00000	1.19286	1.56535

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX3H7R	CK->Q (RR)	(D * SE * SN)	0.09561	0.25388	0.61876
	CK->Q (RR)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.09561	0.25388	0.61876
	CK->Q (RR)	(!SE * !SI * SN)	0.09561	0.25387	0.61876
	CK->Q (RR)	(!D * SI * SN)	0.09561	0.25388	0.61876
	SN->Q (FR)	(CK * D * SE * SI)	0.06975	0.22659	0.59376
	SN->Q (FR)	(CK * D * SE * !SI)	0.06975	0.22659	0.59376
	SN->Q (FR)	(CK * D * !SE * SI)	0.06975	0.22659	0.59376
	SN->Q (FR)	(CK * D * !SE * !SI)	0.06975	0.22659	0.59380
	SN->Q (FR)	(CK * !D * SE * SI)	0.06975	0.22659	0.59377
	SN->Q (FR)	(CK * !D * SE * !SI)	0.06975	0.22659	0.59376
	SN->Q (FR)	(CK * !D * !SE * SI)	0.06975	0.22659	0.59376
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.06975	0.22659	0.59376
	SN->Q (FR)	(!CK * D * SE * SI)	0.06375	0.21369	0.57762
	SN->Q (FR)	(!CK * D * SE * !SI)	0.06511	0.21565	0.57977
	SN->Q (FR)	(!CK * D * !SE * SI)	0.06375	0.21369	0.57762
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.06375	0.21369	0.57762
	SN->Q (FR)	(!CK * !D * SE * SI)	0.06375	0.21369	0.57762
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.06511	0.21565	0.57977
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.06511	0.21565	0.57977
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.06511	0.21565	0.57977

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSQX3H7R	CK->Q (RF)	(D * SE * SN)	0.11860	0.27516	0.57837
	CK->Q (RF)	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.11860	0.27516	0.57837
	CK->Q (RF)	(!SE * !SI * SN)	0.11861	0.27517	0.57839
	CK->Q (RF)	(!D * SI * SN)	0.11861	0.27517	0.57839

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSQX3H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7R	**hold**	**CK (R)**	-0.08737	-0.01537	0.04841
	setup	**CK (R)**	-0.02389	0.05388	0.13887

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7R	**hold**	**CK (R)**	-0.16067	-0.07761	-0.03012
	setup	**CK (R)**	0.05736	0.12332	0.22281

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7R	**hold**	**CK (R)**	-0.07082	-0.00774	0.05342
	setup	**CK (R)**	0.09605	0.14194	0.20040

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7R	**hold**	**CK (R)**	-0.11979	-0.03579	0.03186
	setup	**CK (R)**	0.04676	0.10934	0.19791

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7R	hold	CK (R)	-0.09267	-0.02028	0.04607
	setup	CK (R)	-0.02018	0.05892	0.14166

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7R	hold	CK (R)	-0.19951	-0.10466	-0.05426
	setup	CK (R)	0.08164	0.15085	0.26516

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSQX3H7R	-	0.9851

Constraints(ns) for SN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSQX3H7R	recovery	CK (R)	-0.00557	0.05117	0.10534
	removal	CK (R)	0.04688	0.08812	0.15837

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFSQX3H7R	CK	(D * SE * SN)	0.00341	0.00356	0.00404
	CK	(D * SE * SN)	-0.00003	-0.00002	0.00000
	CK	(D * SE * SN)	-0.00001	-0.00000	0.00000
	CK	(D * SE * SN)	0.00399	0.00414	0.00457
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00341	0.00356	0.00401
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	-0.00004	-0.00002	0.00000
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	-0.00001	-0.00000	0.00000
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00399	0.00414	0.00457
	CK	(!SE * !SI * SN)	0.00341	0.00356	0.00401
	CK	(!SE * !SI * SN)	-0.00004	-0.00002	0.00000
	CK	(!SE * !SI * SN)	-0.00001	-0.00000	0.00000
	CK	(!SE * !SI * SN)	0.00399	0.00414	0.00457
	CK	(!D * SI * SN)	0.00341	0.00356	0.00404
	CK	(!D * SI * SN)	-0.00004	-0.00002	0.00000
	CK	(!D * SI * SN)	-0.00001	-0.00000	0.00000
	CK	(!D * SI * SN)	0.00399	0.00414	0.00457
	SN	(CK * D * SE * SI)	0.00422	0.00440	0.00492
	SN	(CK * D * SE * SI)	-0.00008	-0.00006	-0.00005
	SN	(CK * D * SE * SI)	0.00002	0.00005	0.00008
	SN	(CK * D * SE * SI)	0.00359	0.00379	0.00429
	SN	(CK * D * SE * !SI)	0.00422	0.00440	0.00492
	SN	(CK * D * SE * !SI)	-0.00010	-0.00006	-0.00006
	SN	(CK * D * SE * !SI)	0.00004	0.00005	0.00009
	SN	(CK * D * SE * !SI)	0.00359	0.00379	0.00429
	SN	(CK * D * !SE * SI)	0.00422	0.00440	0.00492
	SN	(CK * D * !SE * SI)	-0.00007	-0.00006	-0.00003
	SN	(CK * D * !SE * SI)	0.00002	0.00005	0.00008
	SN	(CK * D * !SE * SI)	0.00359	0.00379	0.00429
	SN	(CK * D * !SE * !SI)	0.00422	0.00440	0.00492
	SN	(CK * D * !SE * !SI)	-0.00007	-0.00006	-0.00003
	SN	(CK * D * !SE * !SI)	0.00002	0.00005	0.00008
	SN	(CK * D * !SE * !SI)	0.00359	0.00379	0.00429
	SN	(CK * !D * SE * SI)	0.00422	0.00440	0.00492
	SN	(CK * !D * SE * SI)	-0.00008	-0.00006	-0.00005
	SN	(CK * !D * SE * SI)	0.00002	0.00005	0.00008
	SN	(CK * !D * SE * SI)	0.00359	0.00379	0.00429
	SN	(CK * !D * SE * !SI)	0.00422	0.00440	0.00492
	SN	(CK * !D * SE * !SI)	-0.00010	-0.00006	-0.00006
	SN	(CK * !D * SE * !SI)	0.00004	0.00005	0.00009
	SN	(CK * !D * SE * !SI)	0.00359	0.00379	0.00429
	SN	(CK * !D * !SE * SI)	0.00422	0.00440	0.00492
	SN	(CK * !D * !SE * SI)	-0.00009	-0.00006	-0.00006
	SN	(CK * !D * !SE * SI)	0.00004	0.00005	0.00009
	SN	(CK * !D * !SE * SI)	0.00359	0.00379	0.00429
	SN	(CK * !D * !SE * !SI)	0.00422	0.00440	0.00492
	SN	(CK * !D * !SE * !SI)	-0.00009	-0.00006	-0.00006
	SN	(CK * !D * !SE * !SI)	0.00004	0.00005	0.00009
	SN	(CK * !D * !SE * !SI)	0.00359	0.00379	0.00429
	SN	(!CK * D * SE * SI)	0.00296	0.00315	0.00375
	SN	(!CK * D * SE * SI)	-0.00004	-0.00002	0.00003
	SN	(!CK * D * SE * SI)	-0.00006	-0.00001	0.00004
	SN	(!CK * D * SE * SI)	0.00240	0.00264	0.00315
	SN	(!CK * D * SE * !SI)	0.00300	0.00318	0.00373
	SN	(!CK * D * SE * !SI)	-0.00002	-0.00001	0.00000
	SN	(!CK * D * SE * !SI)	-0.00043	-0.00002	0.00003
	SN	(!CK * D * SE * !SI)	0.00245	0.00269	0.00321
	SN	(!CK * D * !SE * SI)	0.00296	0.00316	0.00375
	SN	(!CK * D * !SE * SI)	-0.00007	-0.00002	0.00003
	SN	(!CK * D * !SE * SI)	-0.00006	-0.00001	0.00003
	SN	(!CK * D * !SE * SI)	0.00240	0.00264	0.00315
	SN	(!CK * D * !SE * !SI)	0.00296	0.00315	0.00375
	SN	(!CK * D * !SE * !SI)	-0.00005	-0.00002	0.00003
	SN	(!CK * D * !SE * !SI)	-0.00003	-0.00001	0.00004
	SN	(!CK * D * !SE * !SI)	0.00240	0.00264	0.00315
	SN	(!CK * !D * SE * SI)	0.00296	0.00315	0.00375
	SN	(!CK * !D * SE * SI)	-0.00004	-0.00002	0.00003
	SN	(!CK * !D * SE * SI)	-0.00006	-0.00001	0.00003
	SN	(!CK * !D * SE * SI)	0.00246	0.00264	0.00315
	SN	(!CK * !D * SE * !SI)	0.00300	0.00318	0.00373
	SN	(!CK * !D * SE * !SI)	-0.00002	-0.00001	0.00000
	SN	(!CK * !D * SE * !SI)	-0.00043	-0.00002	0.00003
	SN	(!CK * !D * SE * !SI)	0.00245	0.00269	0.00321
	SN	(!CK * !D * !SE * SI)	0.00300	0.00318	0.00373
	SN	(!CK * !D * !SE * SI)	-0.00002	-0.00001	-0.00000
	SN	(!CK * !D * !SE * SI)	-0.00044	-0.00003	0.00003
	SN	(!CK * !D * !SE * SI)	0.00245	0.00270	0.00321
	SN	(!CK * !D * !SE * !SI)	0.00300	0.00318	0.00373
	SN	(!CK * !D * !SE * !SI)	-0.00002	-0.00001	-0.00000
	SN	(!CK * !D * !SE * !SI)	-0.00044	-0.00003	0.00003
	SN	(!CK * !D * !SE * !SI)	0.00245	0.00270	0.00321

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSQX3H7R	CK	(D * SE * SN)	0.00377	0.00392	0.00448
	CK	(D * SE * SN)	0.00000	0.00002	0.00003
	CK	(D * SE * SN)	0.00000	0.00000	0.00003
	CK	(D * SE * SN)	0.00434	0.00449	0.00505
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00377	0.00392	0.00448
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00000	0.00002	0.00004
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	-0.00000	0.00000	0.00003
	CK	(D * !SE * SI * SN) + (!D * SE * !SI * SN)	0.00434	0.00449	0.00505
	CK	(!SE * !SI * SN)	0.00377	0.00392	0.00448
	CK	(!SE * !SI * SN)	0.00000	0.00002	0.00005
	CK	(!SE * !SI * SN)	0.00000	0.00000	0.00003
	CK	(!SE * !SI * SN)	0.00434	0.00450	0.00505
	CK	(!D * SI * SN)	0.00377	0.00392	0.00448
	CK	(!D * SI * SN)	0.00000	0.00002	0.00005
	CK	(!D * SI * SN)	0.00000	0.00000	0.00003
	CK	(!D * SI * SN)	0.00434	0.00450	0.00505

Passive power(pJ) for CK rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7R	**(D * SE * SI * SN)**	0.00134	0.00143	0.00175
	(D * SE * SI * SN)	0.00000	0.00000	0.00000
	(D * SE * SI * SN)	0.00000	0.00001	0.00001
	(D * SE * SI * SN)	0.00191	0.00200	0.00232
	(D * SE * SI * !SN)	0.00130	0.00139	0.00171
	(D * SE * SI * !SN)	0.00000	0.00000	0.00001
	(D * SE * SI * !SN)	-0.00000	0.00001	0.00001
	(D * SE * SI * !SN)	0.00188	0.00197	0.00229
	(D * SE * !SI * SN)	0.00147	0.00156	0.00189
	(D * SE * !SI * SN)	-0.00000	-0.00000	0.00001
	(D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00206	0.00215	0.00248
	(D * SE * !SI * !SN)	0.00258	0.00268	0.00301
	(D * SE * !SI * !SN)	-0.00004	-0.00003	-0.00002
	(D * SE * !SI * !SN)	0.00003	0.00003	0.00004
	(D * SE * !SI * !SN)	0.00310	0.00319	0.00353
	(D * !SE * SI * SN)	0.00134	0.00143	0.00175
	(D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * SI * SN)	0.00000	0.00001	0.00001
	(D * !SE * SI * SN)	0.00191	0.00200	0.00232
	(D * !SE * SI * !SN)	0.00130	0.00139	0.00171
	(D * !SE * SI * !SN)	0.00000	0.00001	0.00001
	(D * !SE * SI * !SN)	-0.00000	0.00001	0.00001
	(D * !SE * SI * !SN)	0.00188	0.00197	0.00229
	(D * !SE * !SI * SN)	0.00134	0.00143	0.00175
	(D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * !SE * !SI * SN)	-0.00003	0.00000	0.00001
	(D * !SE * !SI * SN)	0.00191	0.00205	0.00268
	(D * !SE * !SI * !SN)	0.00130	0.00139	0.00171
	(D * !SE * !SI * !SN)	0.00000	0.00000	0.00001
	(D * !SE * !SI * !SN)	-0.00000	0.00001	0.00001
	(D * !SE * !SI * !SN)	0.00188	0.00197	0.00229
	(!D * SE * SI * SN)	0.00134	0.00143	0.00175
	(!D * SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * SI * SN)	0.00000	0.00001	0.00001
	(!D * SE * SI * SN)	0.00191	0.00200	0.00232
	(!D * SE * SI * !SN)	0.00130	0.00139	0.00171
	(!D * SE * SI * !SN)	0.00000	0.00001	0.00001
	(!D * SE * SI * !SN)	-0.00000	0.00001	0.00001
	(!D * SE * SI * !SN)	0.00188	0.00197	0.00229
	(!D * SE * !SI * SN)	0.00147	0.00156	0.00189
	(!D * SE * !SI * SN)	-0.00000	0.00000	0.00001
	(!D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00206	0.00215	0.00248
	(!D * SE * !SI * !SN)	0.00258	0.00268	0.00301
	(!D * SE * !SI * !SN)	-0.00004	-0.00003	-0.00002
	(!D * SE * !SI * !SN)	0.00003	0.00003	0.00004
	(!D * SE * !SI * !SN)	0.00310	0.00319	0.00353
	(!D * !SE * SI * SN)	0.00147	0.00156	0.00189
	(!D * !SE * SI * SN)	-0.00000	-0.00000	0.00001
	(!D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * SI * SN)	0.00206	0.00215	0.00248
	(!D * !SE * SI * !SN)	0.00258	0.00268	0.00301
	(!D * !SE * SI * !SN)	-0.00004	-0.00003	-0.00003
	(!D * !SE * SI * !SN)	0.00003	0.00003	0.00004
	(!D * !SE * SI * !SN)	0.00310	0.00319	0.00353
	(!D * !SE * !SI * SN)	0.00147	0.00156	0.00189
	(!D * !SE * !SI * SN)	-0.00000	-0.00000	0.00001
	(!D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00206	0.00215	0.00248
	(!D * !SE * !SI * !SN)	0.00258	0.00268	0.00301
	(!D * !SE * !SI * !SN)	-0.00004	-0.00003	-0.00003
	(!D * !SE * !SI * !SN)	0.00003	0.00003	0.00004
	(!D * !SE * !SI * !SN)	0.00310	0.00319	0.00353

Passive power(pJ) for CK falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7R	**(D * SE * SI * SN)**	0.00356	0.00365	0.00397
	(D * SE * SI * SN)	-0.00000	-0.00000	0.00000
	(D * SE * SI * SN)	0.00003	0.00003	0.00004
	(D * SE * SI * SN)	0.00291	0.00300	0.00333
	(D * SE * SI * !SN)	0.00224	0.00233	0.00269
	(D * SE * SI * !SN)	-0.00001	-0.00000	0.00000
	(D * SE * SI * !SN)	-0.00001	-0.00000	0.00000
	(D * SE * SI * !SN)	0.00165	0.00175	0.00211
	(D * SE * !SI * SN)	0.00315	0.00325	0.00363
	(D * SE * !SI * SN)	0.00003	0.00004	0.00004
	(D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(D * SE * !SI * SN)	0.00263	0.00274	0.00312
	(D * SE * !SI * !SN)	0.00230	0.00241	0.00279
	(D * SE * !SI * !SN)	0.00007	0.00007	0.00008
	(D * SE * !SI * !SN)	-0.00004	-0.00003	-0.00003
	(D * SE * !SI * !SN)	0.00188	0.00199	0.00237
	(D * !SE * SI * SN)	0.00356	0.00364	0.00397
	(D * !SE * SI * SN)	-0.00000	-0.00000	0.00000
	(D * !SE * SI * SN)	0.00003	0.00004	0.00004
	(D * !SE * SI * SN)	0.00291	0.00300	0.00333
	(D * !SE * SI * !SN)	0.00224	0.00233	0.00269
	(D * !SE * SI * !SN)	-0.00001	-0.00000	-0.00000
	(D * !SE * SI * !SN)	-0.00001	-0.00000	0.00000
	(D * !SE * SI * !SN)	0.00165	0.00175	0.00211
	(D * !SE * !SI * SN)	0.00356	0.00364	0.00397
	(D * !SE * !SI * SN)	-0.00000	-0.00000	0.00000
	(D * !SE * !SI * SN)	0.00003	0.00004	0.00004
	(D * !SE * !SI * SN)	0.00291	0.00300	0.00333
	(D * !SE * !SI * !SN)	0.00224	0.00233	0.00269
	(D * !SE * !SI * !SN)	-0.00001	-0.00000	-0.00000
	(D * !SE * !SI * !SN)	-0.00001	-0.00000	0.00000
	(D * !SE * !SI * !SN)	0.00165	0.00175	0.00211
	(!D * SE * SI * SN)	0.00356	0.00364	0.00397
	(!D * SE * SI * SN)	-0.00000	-0.00000	0.00000
	(!D * SE * SI * SN)	0.00003	0.00003	0.00004
	(!D * SE * SI * SN)	0.00291	0.00300	0.00333
	(!D * SE * SI * !SN)	0.00224	0.00233	0.00269
	(!D * SE * SI * !SN)	-0.00001	-0.00001	0.00000
	(!D * SE * SI * !SN)	-0.00001	-0.00000	0.00000
	(!D * SE * SI * !SN)	0.00165	0.00175	0.00211
	(!D * SE * !SI * SN)	0.00315	0.00325	0.00363
	(!D * SE * !SI * SN)	0.00003	0.00004	0.00005
	(!D * SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * SE * !SI * SN)	0.00264	0.00274	0.00312
	(!D * SE * !SI * !SN)	0.00230	0.00241	0.00279
	(!D * SE * !SI * !SN)	0.00007	0.00007	0.00008
	(!D * SE * !SI * !SN)	-0.00004	-0.00003	-0.00003
	(!D * SE * !SI * !SN)	0.00188	0.00199	0.00237
	(!D * !SE * SI * SN)	0.00315	0.00325	0.00363
	(!D * !SE * SI * SN)	0.00003	0.00004	0.00005
	(!D * !SE * SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * SI * SN)	0.00264	0.00274	0.00312
	(!D * !SE * SI * !SN)	0.00230	0.00241	0.00279
	(!D * !SE * SI * !SN)	0.00007	0.00008	0.00009
	(!D * !SE * SI * !SN)	-0.00004	-0.00003	-0.00003
	(!D * !SE * SI * !SN)	0.00188	0.00199	0.00237
	(!D * !SE * !SI * SN)	0.00315	0.00325	0.00363
	(!D * !SE * !SI * SN)	0.00003	0.00004	0.00004
	(!D * !SE * !SI * SN)	0.00000	0.00000	0.00000
	(!D * !SE * !SI * SN)	0.00264	0.00274	0.00312
	(!D * !SE * !SI * !SN)	0.00230	0.00241	0.00279
	(!D * !SE * !SI * !SN)	0.00007	0.00008	0.00009
	(!D * !SE * !SI * !SN)	-0.00004	-0.00003	-0.00003
	(!D * !SE * !SI * !SN)	0.00188	0.00199	0.00237

Passive power(pJ) for D rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7R	**(CK * SE * SI * SN)**	-0.00011	-0.00010	-0.00009
	(CK * SE * SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * SI * SN)	0.00001	0.00001	0.00001
	(CK * SE * SI * SN)	0.00022	0.00022	0.00023
	(CK * SE * SI * !SN)	-0.00011	-0.00010	-0.00009
	(CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * SI * !SN)	0.00001	0.00001	0.00001
	(CK * SE * SI * !SN)	0.00022	0.00022	0.00023
	(CK * SE * !SI * SN)	-0.00011	-0.00010	-0.00009
	(CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * SN)	0.00022	0.00022	0.00022
	(CK * SE * !SI * !SN)	-0.00011	-0.00010	-0.00009
	(CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * !SN)	0.00022	0.00022	0.00022
	(CK * !SE * SI * SN)	0.00018	0.00023	0.00044
	(CK * !SE * SI * SN)	0.00011	0.00011	0.00012
	(CK * !SE * SI * SN)	-0.00010	-0.00009	-0.00009
	(CK * !SE * SI * SN)	0.00108	0.00113	0.00133
	(CK * !SE * SI * !SN)	0.00018	0.00023	0.00043
	(CK * !SE * SI * !SN)	0.00011	0.00012	0.00013
	(CK * !SE * SI * !SN)	-0.00009	-0.00009	-0.00009
	(CK * !SE * SI * !SN)	0.00108	0.00113	0.00133
	(CK * !SE * !SI * SN)	0.00018	0.00023	0.00044
	(CK * !SE * !SI * SN)	0.00011	0.00011	0.00011
	(CK * !SE * !SI * SN)	-0.00010	-0.00009	-0.00009
	(CK * !SE * !SI * SN)	0.00108	0.00113	0.00133
	(CK * !SE * !SI * !SN)	0.00018	0.00023	0.00043
	(CK * !SE * !SI * !SN)	0.00011	0.00012	0.00013
	(CK * !SE * !SI * !SN)	-0.00009	-0.00009	-0.00009
	(CK * !SE * !SI * !SN)	0.00108	0.00113	0.00133
	(!CK * SE * SI * SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * SI * SN)	0.00001	0.00001	0.00001
	(!CK * SE * SI * SN)	0.00022	0.00022	0.00023
	(!CK * SE * SI * !SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * SI * !SN)	0.00001	0.00001	0.00001
	(!CK * SE * SI * !SN)	0.00022	0.00022	0.00023
	(!CK * SE * !SI * SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * SN)	0.00022	0.00022	0.00022
	(!CK * SE * !SI * !SN)	-0.00011	-0.00010	-0.00009
	(!CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * !SN)	0.00022	0.00022	0.00022
	(!CK * !SE * SI * SN)	0.00166	0.00171	0.00191
	(!CK * !SE * SI * SN)	0.00008	0.00008	0.00009
	(!CK * !SE * SI * SN)	-0.00007	-0.00006	-0.00006
	(!CK * !SE * SI * SN)	0.00249	0.00255	0.00275
	(!CK * !SE * SI * !SN)	0.00171	0.00177	0.00198
	(!CK * !SE * SI * !SN)	0.00007	0.00008	0.00009
	(!CK * !SE * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * SI * !SN)	0.00256	0.00261	0.00281
	(!CK * !SE * !SI * SN)	0.00166	0.00171	0.00191
	(!CK * !SE * !SI * SN)	0.00008	0.00008	0.00008
	(!CK * !SE * !SI * SN)	-0.00006	-0.00006	-0.00006
	(!CK * !SE * !SI * SN)	0.00250	0.00255	0.00275
	(!CK * !SE * !SI * !SN)	0.00172	0.00177	0.00198
	(!CK * !SE * !SI * !SN)	0.00005	0.00006	0.00007
	(!CK * !SE * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * !SI * !SN)	0.00254	0.00259	0.00280

Passive power(pJ) for D falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7R	**(CK * SE * SI * SN)**	0.00011	0.00011	0.00011
	(CK * SE * SI * SN)	0.00001	0.00001	0.00001
	(CK * SE * SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * SI * SN)	-0.00022	-0.00021	-0.00021
	(CK * SE * SI * !SN)	0.00011	0.00011	0.00011
	(CK * SE * SI * !SN)	0.00001	0.00001	0.00001
	(CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * SI * !SN)	-0.00022	-0.00021	-0.00021
	(CK * SE * !SI * SN)	0.00011	0.00011	0.00012
	(CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * SN)	-0.00022	-0.00021	-0.00020
	(CK * SE * !SI * !SN)	0.00011	0.00011	0.00012
	(CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * SE * !SI * !SN)	-0.00022	-0.00021	-0.00020
	(CK * !SE * SI * SN)	0.00124	0.00130	0.00152
	(CK * !SE * SI * SN)	-0.00012	-0.00011	-0.00011
	(CK * !SE * SI * SN)	0.00009	0.00009	0.00010
	(CK * !SE * SI * SN)	0.00033	0.00039	0.00062
	(CK * !SE * SI * !SN)	0.00124	0.00130	0.00152
	(CK * !SE * SI * !SN)	-0.00013	-0.00012	-0.00011
	(CK * !SE * SI * !SN)	0.00009	0.00009	0.00009
	(CK * !SE * SI * !SN)	0.00034	0.00039	0.00062
	(CK * !SE * !SI * SN)	0.00124	0.00130	0.00152
	(CK * !SE * !SI * SN)	-0.00011	-0.00011	-0.00011
	(CK * !SE * !SI * SN)	0.00009	0.00009	0.00010
	(CK * !SE * !SI * SN)	0.00033	0.00039	0.00061
	(CK * !SE * !SI * !SN)	0.00124	0.00130	0.00152
	(CK * !SE * !SI * !SN)	-0.00013	-0.00012	-0.00011
	(CK * !SE * !SI * !SN)	0.00009	0.00009	0.00009
	(CK * !SE * !SI * !SN)	0.00033	0.00039	0.00062
	(!CK * SE * SI * SN)	0.00011	0.00011	0.00011
	(!CK * SE * SI * SN)	0.00001	0.00001	0.00001
	(!CK * SE * SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * SI * SN)	-0.00022	-0.00021	-0.00021
	(!CK * SE * SI * !SN)	0.00011	0.00011	0.00011
	(!CK * SE * SI * !SN)	0.00001	0.00001	0.00001
	(!CK * SE * SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * SI * !SN)	-0.00022	-0.00021	-0.00021
	(!CK * SE * !SI * SN)	0.00011	0.00011	0.00012
	(!CK * SE * !SI * SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * SN)	-0.00022	-0.00021	-0.00020
	(!CK * SE * !SI * !SN)	0.00011	0.00011	0.00012
	(!CK * SE * !SI * !SN)	0.00001	0.00001	0.00001
	(!CK * SE * !SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * SE * !SI * !SN)	-0.00022	-0.00021	-0.00020
	(!CK * !SE * SI * SN)	0.00224	0.00230	0.00253
	(!CK * !SE * SI * SN)	-0.00008	-0.00008	-0.00008
	(!CK * !SE * SI * SN)	0.00006	0.00006	0.00007
	(!CK * !SE * SI * SN)	0.00140	0.00146	0.00169
	(!CK * !SE * SI * !SN)	0.00146	0.00152	0.00174
	(!CK * !SE * SI * !SN)	-0.00002	-0.00001	-0.00001
	(!CK * !SE * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * SI * !SN)	0.00076	0.00082	0.00104
	(!CK * !SE * !SI * SN)	0.00224	0.00230	0.00253
	(!CK * !SE * !SI * SN)	-0.00008	-0.00008	-0.00008
	(!CK * !SE * !SI * SN)	0.00006	0.00006	0.00006
	(!CK * !SE * !SI * SN)	0.00140	0.00146	0.00169
	(!CK * !SE * !SI * !SN)	0.00146	0.00152	0.00174
	(!CK * !SE * !SI * !SN)	-0.00002	-0.00001	-0.00001
	(!CK * !SE * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !SE * !SI * !SN)	0.00076	0.00082	0.00104

Passive power(pJ) for SE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7R	**(CK * D * SI * SN)**	-0.00011	0.00001	0.00042
	(CK * D * SI * SN)	0.00001	0.00001	0.00001
	(CK * D * SI * SN)	-0.00002	-0.00002	-0.00001
	(CK * D * SI * SN)	0.00092	0.00104	0.00146
	(CK * D * SI * !SN)	-0.00011	0.00001	0.00042
	(CK * D * SI * !SN)	0.00001	0.00001	0.00001
	(CK * D * SI * !SN)	-0.00002	-0.00002	-0.00001
	(CK * D * SI * !SN)	0.00092	0.00104	0.00146
	(CK * D * !SI * SN)	0.00107	0.00119	0.00158
	(CK * D * !SI * SN)	-0.00007	-0.00006	-0.00006
	(CK * D * !SI * SN)	0.00005	0.00005	0.00007
	(CK * D * !SI * SN)	0.00170	0.00181	0.00220
	(CK * D * !SI * !SN)	0.00108	0.00119	0.00158
	(CK * D * !SI * !SN)	-0.00007	-0.00006	-0.00006
	(CK * D * !SI * !SN)	0.00003	0.00005	0.00007
	(CK * D * !SI * !SN)	0.00171	0.00181	0.00221
	(CK * !D * SI * SN)	-0.00012	0.00010	0.00088
	(CK * !D * SI * SN)	0.00009	0.00010	0.00010
	(CK * !D * SI * SN)	-0.00009	-0.00009	-0.00008
	(CK * !D * SI * SN)	0.00135	0.00157	0.00236
	(CK * !D * SI * !SN)	-0.00012	0.00010	0.00088
	(CK * !D * SI * !SN)	0.00009	0.00010	0.00010
	(CK * !D * SI * !SN)	-0.00009	-0.00009	-0.00008
	(CK * !D * SI * !SN)	0.00136	0.00158	0.00236
	(CK * !D * !SI * SN)	-0.00010	0.00002	0.00045
	(CK * !D * !SI * SN)	0.00001	0.00002	0.00003
	(CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SI * SN)	0.00097	0.00110	0.00152
	(CK * !D * !SI * !SN)	-0.00010	0.00002	0.00045
	(CK * !D * !SI * !SN)	0.00001	0.00002	0.00003
	(CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SI * !SN)	0.00097	0.00110	0.00152
	(!CK * D * SI * SN)	-0.00011	0.00001	0.00042
	(!CK * D * SI * SN)	0.00001	0.00001	0.00001
	(!CK * D * SI * SN)	-0.00002	-0.00002	-0.00001
	(!CK * D * SI * SN)	0.00092	0.00104	0.00146
	(!CK * D * SI * !SN)	-0.00011	0.00001	0.00042
	(!CK * D * SI * !SN)	0.00001	0.00001	0.00001
	(!CK * D * SI * !SN)	-0.00002	-0.00002	-0.00000
	(!CK * D * SI * !SN)	0.00092	0.00104	0.00146
	(!CK * D * !SI * SN)	0.00208	0.00219	0.00258
	(!CK * D * !SI * SN)	-0.00003	-0.00003	-0.00002
	(!CK * D * !SI * SN)	0.00001	0.00002	0.00004
	(!CK * D * !SI * SN)	0.00277	0.00288	0.00327
	(!CK * D * !SI * !SN)	0.00130	0.00141	0.00180
	(!CK * D * !SI * !SN)	0.00004	0.00004	0.00005
	(!CK * D * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * D * !SI * !SN)	0.00212	0.00224	0.00263
	(!CK * !D * SI * SN)	0.00136	0.00158	0.00236
	(!CK * !D * SI * SN)	0.00004	0.00006	0.00006
	(!CK * !D * SI * SN)	-0.00006	-0.00005	-0.00005
	(!CK * !D * SI * SN)	0.00278	0.00299	0.00378
	(!CK * !D * SI * !SN)	0.00142	0.00164	0.00242
	(!CK * !D * SI * !SN)	0.00006	0.00007	0.00008
	(!CK * !D * SI * !SN)	-0.00000	-0.00000	0.00000
	(!CK * !D * SI * !SN)	0.00286	0.00308	0.00386
	(!CK * !D * !SI * SN)	-0.00010	0.00002	0.00045
	(!CK * !D * !SI * SN)	0.00002	0.00002	0.00003
	(!CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SI * SN)	0.00097	0.00109	0.00152
	(!CK * !D * !SI * !SN)	-0.00010	0.00002	0.00045
	(!CK * !D * !SI * !SN)	0.00000	0.00002	0.00003
	(!CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00002
	(!CK * !D * !SI * !SN)	0.00097	0.00109	0.00152

Passive power(pJ) for SE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7R	**(CK * D * SI * SN)**	0.00091	0.00105	0.00151
	(CK * D * SI * SN)	-0.00001	-0.00001	-0.00001
	(CK * D * SI * SN)	0.00001	0.00002	0.00002
	(CK * D * SI * SN)	-0.00012	0.00001	0.00047
	(CK * D * SI * !SN)	0.00092	0.00105	0.00151
	(CK * D * SI * !SN)	-0.00001	-0.00001	-0.00001
	(CK * D * SI * !SN)	0.00001	0.00002	0.00002
	(CK * D * SI * !SN)	-0.00012	0.00001	0.00047
	(CK * D * !SI * SN)	0.00125	0.00138	0.00186
	(CK * D * !SI * SN)	0.00006	0.00006	0.00008
	(CK * D * !SI * SN)	-0.00006	-0.00005	-0.00005
	(CK * D * !SI * SN)	0.00061	0.00076	0.00124
	(CK * D * !SI * !SN)	0.00124	0.00138	0.00186
	(CK * D * !SI * !SN)	0.00006	0.00007	0.00008
	(CK * D * !SI * !SN)	-0.00005	-0.00004	-0.00003
	(CK * D * !SI * !SN)	0.00061	0.00076	0.00124
	(CK * !D * SI * SN)	0.00170	0.00194	0.00279
	(CK * !D * SI * SN)	-0.00010	-0.00010	-0.00009
	(CK * !D * SI * SN)	0.00008	0.00009	0.00009
	(CK * !D * SI * SN)	0.00021	0.00046	0.00131
	(CK * !D * SI * !SN)	0.00170	0.00194	0.00279
	(CK * !D * SI * !SN)	-0.00010	-0.00010	-0.00009
	(CK * !D * SI * !SN)	0.00008	0.00009	0.00009
	(CK * !D * SI * !SN)	0.00021	0.00046	0.00131
	(CK * !D * !SI * SN)	0.00088	0.00101	0.00147
	(CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00001
	(CK * !D * !SI * SN)	0.00002	0.00002	0.00002
	(CK * !D * !SI * SN)	-0.00019	-0.00006	0.00040
	(CK * !D * !SI * !SN)	0.00088	0.00101	0.00147
	(CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00001
	(CK * !D * !SI * !SN)	0.00002	0.00002	0.00002
	(CK * !D * !SI * !SN)	-0.00019	-0.00006	0.00040
	(!CK * D * SI * SN)	0.00092	0.00105	0.00151
	(!CK * D * SI * SN)	-0.00001	-0.00001	-0.00000
	(!CK * D * SI * SN)	0.00002	0.00002	0.00002
	(!CK * D * SI * SN)	-0.00012	0.00001	0.00047
	(!CK * D * SI * !SN)	0.00092	0.00105	0.00151
	(!CK * D * SI * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * SI * !SN)	0.00000	0.00002	0.00002
	(!CK * D * SI * !SN)	-0.00012	0.00001	0.00047
	(!CK * D * !SI * SN)	0.00272	0.00286	0.00333
	(!CK * D * !SI * SN)	0.00002	0.00003	0.00003
	(!CK * D * !SI * SN)	-0.00004	-0.00002	-0.00001
	(!CK * D * !SI * SN)	0.00204	0.00217	0.00265
	(!CK * D * !SI * !SN)	0.00275	0.00288	0.00332
	(!CK * D * !SI * !SN)	0.00005	0.00006	0.00008
	(!CK * D * !SI * !SN)	0.00000	0.00000	0.00000
	(!CK * D * !SI * !SN)	0.00213	0.00226	0.00271
	(!CK * !D * SI * SN)	0.00269	0.00294	0.00380
	(!CK * !D * SI * SN)	-0.00006	-0.00006	-0.00004
	(!CK * !D * SI * SN)	0.00005	0.00006	0.00008
	(!CK * !D * SI * SN)	0.00129	0.00152	0.00238
	(!CK * !D * SI * !SN)	0.00191	0.00216	0.00301
	(!CK * !D * SI * !SN)	-0.00001	0.00001	0.00002
	(!CK * !D * SI * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SI * !SN)	0.00064	0.00088	0.00173
	(!CK * !D * !SI * SN)	0.00088	0.00101	0.00147
	(!CK * !D * !SI * SN)	-0.00002	-0.00002	-0.00001
	(!CK * !D * !SI * SN)	0.00002	0.00002	0.00003
	(!CK * !D * !SI * SN)	-0.00019	-0.00006	0.00040
	(!CK * !D * !SI * !SN)	0.00088	0.00101	0.00147
	(!CK * !D * !SI * !SN)	-0.00002	-0.00002	-0.00000
	(!CK * !D * !SI * !SN)	0.00002	0.00002	0.00003
	(!CK * !D * !SI * !SN)	-0.00019	-0.00006	0.00040

Passive power(pJ) for SI rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7R	**(CK * D * SE * SN)**	0.00002	0.00005	0.00019
	(CK * D * SE * SN)	0.00009	0.00009	0.00010
	(CK * D * SE * SN)	-0.00009	-0.00009	-0.00008
	(CK * D * SE * SN)	0.00086	0.00090	0.00103
	(CK * D * SE * !SN)	0.00002	0.00005	0.00019
	(CK * D * SE * !SN)	0.00009	0.00010	0.00010
	(CK * D * SE * !SN)	-0.00008	-0.00008	-0.00008
	(CK * D * SE * !SN)	0.00086	0.00090	0.00103
	(CK * D * !SE * SN)	-0.00011	-0.00010	-0.00009
	(CK * D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(CK * D * !SE * SN)	0.00001	0.00001	0.00001
	(CK * D * !SE * SN)	0.00023	0.00023	0.00024
	(CK * D * !SE * !SN)	-0.00011	-0.00010	-0.00009
	(CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(CK * D * !SE * !SN)	0.00001	0.00001	0.00001
	(CK * D * !SE * !SN)	0.00023	0.00023	0.00024
	(CK * !D * SE * SN)	0.00002	0.00005	0.00019
	(CK * !D * SE * SN)	0.00009	0.00009	0.00010
	(CK * !D * SE * SN)	-0.00009	-0.00009	-0.00008
	(CK * !D * SE * SN)	0.00086	0.00090	0.00103
	(CK * !D * SE * !SN)	0.00002	0.00006	0.00019
	(CK * !D * SE * !SN)	0.00009	0.00009	0.00010
	(CK * !D * SE * !SN)	-0.00008	-0.00008	-0.00008
	(CK * !D * SE * !SN)	0.00086	0.00090	0.00103
	(CK * !D * !SE * SN)	-0.00017	-0.00016	-0.00016
	(CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(CK * !D * !SE * SN)	0.00000	0.00001	0.00001
	(CK * !D * !SE * SN)	0.00018	0.00018	0.00018
	(CK * !D * !SE * !SN)	-0.00017	-0.00016	-0.00016
	(CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(CK * !D * !SE * !SN)	0.00000	0.00001	0.00001
	(CK * !D * !SE * !SN)	0.00018	0.00018	0.00018
	(!CK * D * SE * SN)	0.00150	0.00153	0.00167
	(!CK * D * SE * SN)	0.00005	0.00006	0.00007
	(!CK * D * SE * SN)	-0.00006	-0.00006	-0.00005
	(!CK * D * SE * SN)	0.00227	0.00231	0.00245
	(!CK * D * SE * !SN)	0.00155	0.00159	0.00173
	(!CK * D * SE * !SN)	0.00006	0.00006	0.00006
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00234	0.00237	0.00251
	(!CK * D * !SE * SN)	-0.00011	-0.00010	-0.00009
	(!CK * D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * !SE * SN)	0.00001	0.00001	0.00001
	(!CK * D * !SE * SN)	0.00023	0.00023	0.00024
	(!CK * D * !SE * !SN)	-0.00011	-0.00010	-0.00009
	(!CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * !SE * !SN)	0.00001	0.00001	0.00001
	(!CK * D * !SE * !SN)	0.00023	0.00023	0.00024
	(!CK * !D * SE * SN)	0.00150	0.00153	0.00167
	(!CK * !D * SE * SN)	0.00006	0.00006	0.00007
	(!CK * !D * SE * SN)	-0.00006	-0.00005	-0.00005
	(!CK * !D * SE * SN)	0.00227	0.00231	0.00245
	(!CK * !D * SE * !SN)	0.00156	0.00160	0.00174
	(!CK * !D * SE * !SN)	0.00004	0.00004	0.00004
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00233	0.00236	0.00250
	(!CK * !D * !SE * SN)	-0.00017	-0.00016	-0.00015
	(!CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !SE * SN)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * SN)	0.00017	0.00018	0.00018
	(!CK * !D * !SE * !SN)	-0.00017	-0.00016	-0.00015
	(!CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !SE * !SN)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * !SN)	0.00017	0.00018	0.00018

Passive power(pJ) for SI falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

	(CK * D * SE * SN)	0.00131	0.00135	0.00150
	(CK * D * SE * SN)	-0.00010	-0.00009	-0.00009
	(CK * D * SE * SN)	0.00008	0.00009	0.00009
	(CK * D * SE * SN)	0.00047	0.00051	0.00066
	(CK * D * SE * !SN)	0.00131	0.00135	0.00150
	(CK * D * SE * !SN)	-0.00010	-0.00010	-0.00009
	(CK * D * SE * !SN)	0.00008	0.00008	0.00008
	(CK * D * SE * !SN)	0.00047	0.00052	0.00067
	(CK * D * !SE * SN)	0.00011	0.00011	0.00011
	(CK * D * !SE * SN)	0.00001	0.00001	0.00001
	(CK * D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(CK * D * !SE * SN)	-0.00023	-0.00022	-0.00022
	(CK * D * !SE * !SN)	0.00011	0.00011	0.00011
	(CK * D * !SE * !SN)	0.00001	0.00001	0.00001
	(CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(CK * D * !SE * !SN)	-0.00023	-0.00022	-0.00022
	(CK * !D * SE * SN)	0.00131	0.00135	0.00150
	(CK * !D * SE * SN)	-0.00010	-0.00009	-0.00009
	(CK * !D * SE * SN)	0.00009	0.00009	0.00009
	(CK * !D * SE * SN)	0.00047	0.00051	0.00066
	(CK * !D * SE * !SN)	0.00131	0.00135	0.00150
	(CK * !D * SE * !SN)	-0.00010	-0.00009	-0.00009
	(CK * !D * SE * !SN)	0.00008	0.00008	0.00008
	(CK * !D * SE * !SN)	0.00047	0.00052	0.00067
	(CK * !D * !SE * SN)	0.00017	0.00017	0.00018
	(CK * !D * !SE * SN)	0.00001	0.00001	0.00001
	(CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SE * SN)	-0.00017	-0.00017	-0.00016
	(CK * !D * !SE * !SN)	0.00017	0.00017	0.00018
	(CK * !D * !SE * !SN)	0.00001	0.00001	0.00001
	(CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00000
	(CK * !D * !SE * !SN)	-0.00017	-0.00016	-0.00015
SDFFSQX3H7R	**(!CK * D * SE * SN)**	0.00231	0.00236	0.00252
	(!CK * D * SE * SN)	-0.00007	-0.00006	-0.00005
	(!CK * D * SE * SN)	0.00005	0.00006	0.00006
	(!CK * D * SE * SN)	0.00154	0.00158	0.00174
	(!CK * D * SE * !SN)	0.00153	0.00157	0.00173
	(!CK * D * SE * !SN)	0.00001	0.00001	0.00002
	(!CK * D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SN)	0.00090	0.00094	0.00109
	(!CK * D * !SE * SN)	0.00011	0.00011	0.00011
	(!CK * D * !SE * SN)	0.00001	0.00001	0.00001
	(!CK * D * !SE * SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * !SE * SN)	-0.00023	-0.00022	-0.00022
	(!CK * D * !SE * !SN)	0.00011	0.00011	0.00011
	(!CK * D * !SE * !SN)	0.00001	0.00001	0.00001
	(!CK * D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * D * !SE * !SN)	-0.00023	-0.00022	-0.00022
	(!CK * !D * SE * SN)	0.00231	0.00236	0.00252
	(!CK * !D * SE * SN)	-0.00007	-0.00006	-0.00006
	(!CK * !D * SE * SN)	0.00005	0.00006	0.00006
	(!CK * !D * SE * SN)	0.00154	0.00158	0.00174
	(!CK * !D * SE * !SN)	0.00153	0.00157	0.00173
	(!CK * !D * SE * !SN)	0.00001	0.00001	0.00002
	(!CK * !D * SE * !SN)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SN)	0.00090	0.00094	0.00109
	(!CK * !D * !SE * SN)	0.00017	0.00017	0.00017
	(!CK * !D * !SE * SN)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * SN)	-0.00001	-0.00001	-0.00000
	(!CK * !D * !SE * SN)	-0.00017	-0.00017	-0.00016
	(!CK * !D * !SE * !SN)	0.00017	0.00017	0.00018
	(!CK * !D * !SE * !SN)	0.00001	0.00001	0.00001
	(!CK * !D * !SE * !SN)	-0.00001	-0.00001	-0.00001
	(!CK * !D * !SE * !SN)	-0.00017	-0.00017	-0.00016

Passive power(pJ) for SN rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7R	**(CK * D * SE * SI)**	0.00003	0.00015	0.00059
	(CK * D * SE * SI)	0.00003	0.00003	0.00004
	(CK * D * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * D * SE * SI)	0.00062	0.00074	0.00118
	(CK * D * SE * !SI)	0.00003	0.00015	0.00059
	(CK * D * SE * !SI)	0.00003	0.00003	0.00004
	(CK * D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * D * SE * !SI)	0.00062	0.00074	0.00118
	(CK * D * !SE * SI)	0.00003	0.00015	0.00059
	(CK * D * !SE * SI)	0.00003	0.00003	0.00004
	(CK * D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * D * !SE * SI)	0.00062	0.00074	0.00118
	(CK * D * !SE * !SI)	0.00003	0.00015	0.00059
	(CK * D * !SE * !SI)	0.00003	0.00003	0.00004
	(CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * D * !SE * !SI)	0.00062	0.00074	0.00118
	(CK * !D * SE * SI)	0.00003	0.00015	0.00059
	(CK * !D * SE * SI)	0.00003	0.00003	0.00004
	(CK * !D * SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * SE * SI)	0.00062	0.00074	0.00118
	(CK * !D * SE * !SI)	0.00003	0.00015	0.00059
	(CK * !D * SE * !SI)	0.00003	0.00003	0.00004
	(CK * !D * SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * SE * !SI)	0.00062	0.00074	0.00118
	(CK * !D * !SE * SI)	0.00003	0.00015	0.00059
	(CK * !D * !SE * SI)	0.00003	0.00003	0.00004
	(CK * !D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * SI)	0.00062	0.00074	0.00119
	(CK * !D * !SE * !SI)	0.00003	0.00015	0.00059
	(CK * !D * !SE * !SI)	0.00003	0.00003	0.00004
	(CK * !D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(CK * !D * !SE * !SI)	0.00062	0.00074	0.00118
	(!CK * D * SE * SI)	0.00003	0.00015	0.00060
	(!CK * D * SE * SI)	0.00002	0.00003	0.00003
	(!CK * D * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * SE * SI)	0.00062	0.00075	0.00119
	(!CK * D * SE * !SI)	0.00084	0.00097	0.00141
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	0.00130	0.00142	0.00186
	(!CK * D * !SE * SI)	0.00003	0.00015	0.00060
	(!CK * D * !SE * SI)	0.00002	0.00003	0.00003
	(!CK * D * !SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * SI)	0.00062	0.00075	0.00119
	(!CK * D * !SE * !SI)	0.00003	0.00015	0.00060
	(!CK * D * !SE * !SI)	0.00002	0.00003	0.00003
	(!CK * D * !SE * !SI)	-0.00002	-0.00002	-0.00002
	(!CK * D * !SE * !SI)	0.00062	0.00075	0.00119
	(!CK * !D * SE * SI)	0.00003	0.00015	0.00060
	(!CK * !D * SE * SI)	0.00002	0.00003	0.00003
	(!CK * !D * SE * SI)	-0.00002	-0.00002	-0.00002
	(!CK * !D * SE * SI)	0.00062	0.00075	0.00119
	(!CK * !D * SE * !SI)	0.00084	0.00096	0.00141
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00130	0.00142	0.00186
	(!CK * !D * !SE * SI)	0.00084	0.00097	0.00141
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00130	0.00142	0.00186
	(!CK * !D * !SE * !SI)	0.00084	0.00097	0.00141
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00130	0.00142	0.00186

Passive power(pJ) for SN falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max

SDFFSQX3H7R	**(CK * D * SE * SI)**	0.00068	0.00081	0.00128
	(CK * D * SE * SI)	-0.00004	-0.00003	-0.00003
	(CK * D * SE * SI)	0.00002	0.00002	0.00002
	(CK * D * SE * SI)	0.00008	0.00022	0.00069
	(CK * D * SE * !SI)	0.00068	0.00081	0.00128
	(CK * D * SE * !SI)	-0.00004	-0.00003	-0.00003
	(CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(CK * D * SE * !SI)	0.00008	0.00022	0.00069
	(CK * D * !SE * SI)	0.00068	0.00081	0.00128
	(CK * D * !SE * SI)	-0.00004	-0.00003	-0.00003
	(CK * D * !SE * SI)	0.00002	0.00002	0.00002
	(CK * D * !SE * SI)	0.00008	0.00022	0.00069
	(CK * D * !SE * !SI)	0.00068	0.00081	0.00128
	(CK * D * !SE * !SI)	-0.00004	-0.00003	-0.00003
	(CK * D * !SE * !SI)	0.00002	0.00002	0.00002
	(CK * D * !SE * !SI)	0.00008	0.00022	0.00069
	(CK * !D * SE * SI)	0.00068	0.00081	0.00128
	(CK * !D * SE * SI)	-0.00004	-0.00003	-0.00003
	(CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(CK * !D * SE * SI)	0.00008	0.00022	0.00069
	(CK * !D * SE * !SI)	0.00068	0.00081	0.00128
	(CK * !D * SE * !SI)	-0.00004	-0.00003	-0.00003
	(CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(CK * !D * SE * !SI)	0.00008	0.00022	0.00069
	(CK * !D * !SE * SI)	0.00068	0.00081	0.00128
	(CK * !D * !SE * SI)	-0.00004	-0.00003	-0.00003
	(CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(CK * !D * !SE * SI)	0.00008	0.00022	0.00069
	(CK * !D * !SE * !SI)	0.00068	0.00081	0.00128
	(CK * !D * !SE * !SI)	-0.00004	-0.00003	-0.00003
	(CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(CK * !D * !SE * !SI)	0.00008	0.00022	0.00069
	(!CK * D * SE * SI)	0.00067	0.00081	0.00128
	(!CK * D * SE * SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * SI)	0.00008	0.00021	0.00069
	(!CK * D * SE * !SI)	0.00068	0.00082	0.00129
	(!CK * D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * SE * !SI)	0.00009	0.00022	0.00070
	(!CK * D * !SE * SI)	0.00067	0.00081	0.00128
	(!CK * D * !SE * SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * SI)	0.00008	0.00021	0.00069
	(!CK * D * !SE * !SI)	0.00067	0.00081	0.00128
	(!CK * D * !SE * !SI)	-0.00003	-0.00003	-0.00002
	(!CK * D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * D * !SE * !SI)	0.00008	0.00021	0.00069
	(!CK * !D * SE * SI)	0.00067	0.00081	0.00128
	(!CK * !D * SE * SI)	-0.00003	-0.00003	-0.00002
	(!CK * !D * SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * SI)	0.00008	0.00021	0.00069
	(!CK * !D * SE * !SI)	0.00068	0.00082	0.00129
	(!CK * !D * SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * SE * !SI)	0.00009	0.00022	0.00070
	(!CK * !D * !SE * SI)	0.00068	0.00082	0.00129
	(!CK * !D * !SE * SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * SI)	0.00009	0.00022	0.00070
	(!CK * !D * !SE * !SI)	0.00068	0.00082	0.00129
	(!CK * !D * !SE * !SI)	0.00000	0.00000	0.00000
	(!CK * !D * !SE * !SI)	0.00002	0.00002	0.00002
	(!CK * !D * !SE * !SI)	0.00009	0.00022	0.00070

SDFFSX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Async Set
Q = !SN ? 1 : rising(CK) ? (SE&SI | !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	SE	SI	SN	Q	QN
R	0	0	x	1	0	1
R	x	1	0	1	0	1
R	x	1	1	1	1	0
R	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFSX0P5H7R	11.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	SE	SI	SN	Q	QN
SDFFSX0P5H7R	0.00115	0.00075	0.00183	0.00073	0.00072	0.05943	0.05987

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSX0P5H7R	0.00000	1.10846	1.47836

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX0P5H7R	CK->Q (RR)	(SE * SN)	0.11564	0.26543	0.62753
	CK->Q (RR)	(!SE * SN)	0.11566	0.26545	0.62759
	SN->Q (FR)	(CK * D * SE * SI)	0.09945	0.26505	0.67279
	SN->Q (FR)	(CK * D * SE * !SI)	0.09945	0.26504	0.67274
	SN->Q (FR)	(CK * D * !SE * SI)	0.09946	0.26505	0.67278
	SN->Q (FR)	(CK * D * !SE * !SI)	0.09946	0.26505	0.67278
	SN->Q (FR)	(CK * !D * SE * SI)	0.09945	0.26505	0.67285
	SN->Q (FR)	(CK * !D * SE * !SI)	0.09945	0.26505	0.67298
	SN->Q (FR)	(CK * !D * !SE * SI)	0.09945	0.26504	0.67273
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.09945	0.26504	0.67273
	SN->Q (FR)	(!CK * D * SE * SI)	0.08732	0.24793	0.64254
	SN->Q (FR)	(!CK * D * SE * !SI)	0.09225	0.25595	0.65788
	SN->Q (FR)	(!CK * D * !SE * SI)	0.08732	0.24793	0.64254
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.08732	0.24793	0.64254
	SN->Q (FR)	(!CK * !D * SE * SI)	0.08732	0.24793	0.64254
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.09225	0.25595	0.65788
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.09225	0.25595	0.65771
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.09225	0.25596	0.65771

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX0P5H7R	CK->Q (RF)	(SE * SN)	0.12931	0.25418	0.54197
	CK->Q (RF)	(!SE * SN)	0.12931	0.25421	0.54210

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX0P5H7R	CK->QN (RR)	(SE * SN)	0.09648	0.25564	0.62081
	CK->QN (RR)	(!SE * SN)	0.09648	0.25564	0.62082

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX0P5H7R	CK->QN (RF)	(SE * SN)	0.08142	0.21727	0.51734
	CK->QN (RF)	(!SE * SN)	0.08143	0.21729	0.51723
	SN->QN (FF)	(CK * D * SE * SI)	0.06377	0.21912	0.57729
	SN->QN (FF)	(CK * D * SE * !SI)	0.06378	0.21912	0.57731
	SN->QN (FF)	(CK * D * !SE * SI)	0.06378	0.21912	0.57729
	SN->QN (FF)	(CK * D * !SE * !SI)	0.06378	0.21912	0.57729
	SN->QN (FF)	(CK * !D * SE * SI)	0.06377	0.21912	0.57729
	SN->QN (FF)	(CK * !D * SE * !SI)	0.06378	0.21912	0.57731
	SN->QN (FF)	(CK * !D * !SE * SI)	0.06378	0.21912	0.57729
	SN->QN (FF)	(CK * !D * !SE * !SI)	0.06377	0.21912	0.57729
	SN->QN (FF)	(!CK * D * SE * SI)	0.05500	0.19731	0.53083
	SN->QN (FF)	(!CK * D * SE * !SI)	0.05937	0.20520	0.54630
	SN->QN (FF)	(!CK * D * !SE * SI)	0.05501	0.19731	0.53083
	SN->QN (FF)	(!CK * D * !SE * !SI)	0.05501	0.19731	0.53083
	SN->QN (FF)	(!CK * !D * SE * SI)	0.05500	0.19731	0.53083
	SN->QN (FF)	(!CK * !D * SE * !SI)	0.05937	0.20520	0.54630
	SN->QN (FF)	(!CK * !D * !SE * SI)	0.05937	0.20520	0.54630
	SN->QN (FF)	(!CK * !D * !SE * !SI)	0.05937	0.20520	0.54630

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7R	**hold**	**CK (R)**	-0.09597	-0.04215	-0.00596
	setup	**CK (R)**	0.03093	0.08450	0.17692

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7R	**hold**	**CK (R)**	-0.13726	-0.03742	0.04526
	setup	**CK (R)**	-0.01099	0.08551	0.21242

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7R	**hold**	**CK (R)**	-0.07354	-0.02568	0.03117
	setup	**CK (R)**	0.03055	0.09285	0.17550

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7R	**hold**	**CK (R)**	-0.11063	-0.02520	0.05368
	setup	**CK (R)**	0.04836	0.09764	0.20252

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7R	hold	CK (R)	-0.10505	-0.04782	-0.00803
	setup	CK (R)	0.04007	0.09299	0.18851

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7R	hold	CK (R)	-0.14513	-0.04387	0.03604
	setup	CK (R)	-0.00029	0.09466	0.22282

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX0P5H7R	recovery	CK (R)	-0.11556	-0.01396	0.15458
	removal	CK (R)	0.07669	0.12030	0.20141

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSX0P5H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CK	**(SE * SN)**	0.00201	0.00211	0.00233
	CK	**(SE * SN)**	-0.00002	-0.00002	-0.00001
	CK	**(SE * SN)**	0.00000	0.00001	0.00002
	CK	**(SE * SN)**	0.00237	0.00245	0.00268
	CK	**(!SE * SN)**	0.00201	0.00211	0.00233
	CK	**(!SE * SN)**	-0.00002	-0.00002	-0.00001
	CK	**(!SE * SN)**	0.00000	0.00001	0.00003
	CK	**(!SE * SN)**	0.00237	0.00245	0.00268
	SN	**(CK * D * SE * SI)**	0.00204	0.00211	0.00230
	SN	**(CK * D * SE * SI)**	-0.00001	-0.00001	-0.00001
	SN	**(CK * D * SE * SI)**	0.00002	0.00002	0.00004
	SN	**(CK * D * SE * SI)**	0.00176	0.00182	0.00202
	SN	**(CK * D * SE * !SI)**	0.00207	0.00213	0.00232
	SN	**(CK * D * SE * !SI)**	-0.00002	-0.00002	-0.00001
	SN	**(CK * D * SE * !SI)**	0.00002	0.00002	0.00002
	SN	**(CK * D * SE * !SI)**	0.00179	0.00185	0.00204
	SN	**(CK * D * !SE * SI)**	0.00204	0.00211	0.00230
	SN	**(CK * D * !SE * SI)**	-0.00002	-0.00001	0.00001
	SN	**(CK * D * !SE * SI)**	-0.00007	0.00002	0.00004
	SN	**(CK * D * !SE * SI)**	0.00176	0.00183	0.00202
	SN	**(CK * D * !SE * !SI)**	0.00204	0.00211	0.00230
	SN	**(CK * D * !SE * !SI)**	-0.00002	-0.00001	-0.00000
	SN	**(CK * D * !SE * !SI)**	-0.00007	0.00002	0.00004
	SN	**(CK * D * !SE * !SI)**	0.00176	0.00183	0.00202
	SN	**(CK * !D * SE * SI)**	0.00204	0.00211	0.00230
	SN	**(CK * !D * SE * SI)**	-0.00001	-0.00001	-0.00001
	SN	**(CK * !D * SE * SI)**	-0.00000	0.00002	0.00002
	SN	**(CK * !D * SE * SI)**	0.00176	0.00183	0.00202
	SN	**(CK * !D * SE * !SI)**	0.00207	0.00213	0.00232
	SN	**(CK * !D * SE * !SI)**	-0.00002	-0.00002	-0.00001
	SN	**(CK * !D * SE * !SI)**	0.00002	0.00002	0.00002
	SN	**(CK * !D * SE * !SI)**	0.00178	0.00185	0.00204
	SN	**(CK * !D * !SE * SI)**	0.00207	0.00213	0.00232
	SN	**(CK * !D * !SE * SI)**	-0.00002	-0.00002	-0.00001
	SN	**(CK * !D * !SE * SI)**	0.00002	0.00002	0.00002
SDFFSX0P5H7R	**SN**	**(CK * !D * !SE * SI)**	0.00179	0.00185	0.00204
	SN	**(CK * !D * !SE * !SI)**	0.00207	0.00213	0.00232
	SN	**(CK * !D * !SE * !SI)**	-0.00002	-0.00002	-0.00001
	SN	**(CK * !D * !SE * !SI)**	0.00002	0.00002	0.00002
	SN	**(CK * !D * !SE * !SI)**	0.00179	0.00185	0.00204
	SN	**(!CK * D * SE * SI)**	0.00144	0.00151	0.00169
	SN	**(!CK * D * SE * SI)**	-0.00004	-0.00004	-0.00002
	SN	**(!CK * D * SE * SI)**	0.00004	0.00005	0.00006
	SN	**(!CK * D * SE * SI)**	0.00110	0.00119	0.00138
	SN	**(!CK * D * SE * !SI)**	0.00149	0.00156	0.00174
	SN	**(!CK * D * SE * !SI)**	-0.00007	-0.00005	-0.00002
	SN	**(!CK * D * SE * !SI)**	0.00003	0.00005	0.00007
	SN	**(!CK * D * SE * !SI)**	0.00112	0.00121	0.00138
	SN	**(!CK * D * !SE * SI)**	0.00144	0.00151	0.00169
	SN	**(!CK * D * !SE * SI)**	-0.00006	-0.00004	-0.00003
	SN	**(!CK * D * !SE * SI)**	0.00002	0.00004	0.00005
	SN	**(!CK * D * !SE * SI)**	0.00112	0.00119	0.00138
	SN	**(!CK * D * !SE * !SI)**	0.00144	0.00151	0.00169
	SN	**(!CK * D * !SE * !SI)**	-0.00006	-0.00004	-0.00003
	SN	**(!CK * D * !SE * !SI)**	0.00002	0.00004	0.00005
	SN	**(!CK * D * !SE * !SI)**	0.00112	0.00119	0.00138
	SN	**(!CK * !D * SE * SI)**	0.00144	0.00151	0.00169
	SN	**(!CK * !D * SE * SI)**	-0.00004	-0.00004	-0.00002
	SN	**(!CK * !D * SE * SI)**	0.00004	0.00005	0.00006
	SN	**(!CK * !D * SE * SI)**	0.00110	0.00119	0.00138
	SN	**(!CK * !D * SE * !SI)**	0.00149	0.00156	0.00174
	SN	**(!CK * !D * SE * !SI)**	-0.00007	-0.00005	-0.00002
	SN	**(!CK * !D * SE * !SI)**	0.00003	0.00005	0.00007
	SN	**(!CK * !D * SE * !SI)**	0.00112	0.00121	0.00138
	SN	**(!CK * !D * !SE * SI)**	0.00149	0.00156	0.00174
	SN	**(!CK * !D * !SE * SI)**	-0.00006	-0.00005	-0.00004
	SN	**(!CK * !D * !SE * SI)**	0.00003	0.00005	0.00007
	SN	**(!CK * !D * !SE * SI)**	0.00113	0.00121	0.00138
	SN	**(!CK * !D * !SE * !SI)**	0.00149	0.00156	0.00174
	SN	**(!CK * !D * !SE * !SI)**	-0.00006	-0.00005	-0.00004
	SN	**(!CK * !D * !SE * !SI)**	0.00003	0.00005	0.00007
	SN	**(!CK * !D * !SE * !SI)**	0.00113	0.00121	0.00138

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX0P5H7R	CK	(SE * SN)	0.00201	0.00209	0.00234
	CK	(SE * SN)	0.00001	0.00002	0.00002
	CK	(SE * SN)	-0.00002	-0.00001	0.00000
	CK	(SE * SN)	0.00243	0.00252	0.00278
	CK	(!SE * SN)	0.00201	0.00209	0.00234
	CK	(!SE * SN)	0.00001	0.00002	0.00002
	CK	(!SE * SN)	-0.00002	-0.00001	0.00000
	CK	(!SE * SN)	0.00243	0.00252	0.00278

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX0P5H7R	CK	(SE * SN)	0.00201	0.00210	0.00235
	CK	(SE * SN)	0.00000	0.00002	0.00004
	CK	(SE * SN)	-0.00002	-0.00001	0.00000
	CK	(SE * SN)	0.00244	0.00252	0.00279
	CK	(!SE * SN)	0.00199	0.00209	0.00235
	CK	(!SE * SN)	0.00000	0.00002	0.00005
	CK	(!SE * SN)	-0.00003	-0.00001	0.00000
	CK	(!SE * SN)	0.00239	0.00252	0.00279

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFSX0P5H7R	**CK**	**(SE * SN)**	0.00201	0.00211	0.00233
	CK	**(SE * SN)**	-0.00003	-0.00002	-0.00000
	CK	**(SE * SN)**	0.00000	0.00001	0.00003
	CK	**(SE * SN)**	0.00237	0.00245	0.00268
	CK	**(!SE * SN)**	0.00202	0.00211	0.00232
	CK	**(!SE * SN)**	-0.00003	-0.00002	0.00000
	CK	**(!SE * SN)**	0.00000	0.00001	0.00003
	CK	**(!SE * SN)**	0.00236	0.00245	0.00267
	SN	**(CK * D * SE * SI)**	0.00204	0.00211	0.00229
	SN	**(CK * D * SE * SI)**	-0.00002	-0.00001	-0.00001
	SN	**(CK * D * SE * SI)**	-0.00000	0.00002	0.00002
	SN	**(CK * D * SE * SI)**	0.00177	0.00183	0.00201
	SN	**(CK * D * SE * !SI)**	0.00206	0.00213	0.00232
	SN	**(CK * D * SE * !SI)**	-0.00002	-0.00001	0.00001
	SN	**(CK * D * SE * !SI)**	0.00000	0.00002	0.00004
	SN	**(CK * D * SE * !SI)**	0.00179	0.00185	0.00204
	SN	**(CK * D * !SE * SI)**	0.00204	0.00211	0.00230
	SN	**(CK * D * !SE * SI)**	-0.00003	-0.00001	0.00000
	SN	**(CK * D * !SE * SI)**	-0.00000	0.00002	0.00026
	SN	**(CK * D * !SE * SI)**	0.00155	0.00182	0.00202
	SN	**(CK * D * !SE * !SI)**	0.00204	0.00211	0.00229
	SN	**(CK * D * !SE * !SI)**	-0.00003	-0.00002	0.00000
	SN	**(CK * D * !SE * !SI)**	-0.00000	0.00002	0.00026
	SN	**(CK * D * !SE * !SI)**	0.00155	0.00182	0.00201
	SN	**(CK * !D * SE * SI)**	0.00204	0.00211	0.00229
	SN	**(CK * !D * SE * SI)**	-0.00002	-0.00001	0.00000
	SN	**(CK * !D * SE * SI)**	-0.00000	0.00002	0.00002
	SN	**(CK * !D * SE * SI)**	0.00177	0.00183	0.00201
	SN	**(CK * !D * SE * !SI)**	0.00206	0.00213	0.00232
	SN	**(CK * !D * SE * !SI)**	-0.00002	-0.00001	0.00001
	SN	**(CK * !D * SE * !SI)**	0.00000	0.00002	0.00004
	SN	**(CK * !D * SE * !SI)**	0.00179	0.00185	0.00204
	SN	**(CK * !D * !SE * SI)**	0.00205	0.00213	0.00232
	SN	**(CK * !D * !SE * SI)**	-0.00004	-0.00001	0.00001
	SN	**(CK * !D * !SE * SI)**	0.00000	0.00002	0.00004
	SN	**(CK * !D * !SE * SI)**	0.00178	0.00185	0.00204
	SN	**(CK * !D * !SE * !SI)**	0.00205	0.00213	0.00232
	SN	**(CK * !D * !SE * !SI)**	-0.00003	-0.00001	0.00001
	SN	**(CK * !D * !SE * !SI)**	0.00000	0.00002	0.00003
	SN	**(CK * !D * !SE * !SI)**	0.00178	0.00185	0.00204
	SN	**(!CK * D * SE * SI)**	0.00144	0.00151	0.00169
	SN	**(!CK * D * SE * SI)**	-0.00005	-0.00004	-0.00002
	SN	**(!CK * D * SE * SI)**	0.00003	0.00004	0.00006
	SN	**(!CK * D * SE * SI)**	0.00110	0.00119	0.00136
	SN	**(!CK * D * SE * !SI)**	0.00149	0.00156	0.00174
	SN	**(!CK * D * SE * !SI)**	-0.00007	-0.00005	-0.00003
	SN	**(!CK * D * SE * !SI)**	0.00003	0.00005	0.00007
	SN	**(!CK * D * SE * !SI)**	0.00113	0.00121	0.00138
	SN	**(!CK * D * !SE * SI)**	0.00144	0.00151	0.00169
	SN	**(!CK * D * !SE * SI)**	-0.00005	-0.00004	-0.00002
	SN	**(!CK * D * !SE * SI)**	0.00003	0.00004	0.00006
	SN	**(!CK * D * !SE * SI)**	0.00110	0.00119	0.00136
	SN	**(!CK * D * !SE * !SI)**	0.00144	0.00151	0.00169
	SN	**(!CK * D * !SE * !SI)**	-0.00005	-0.00004	-0.00002
	SN	**(!CK * D * !SE * !SI)**	0.00003	0.00004	0.00006
	SN	**(!CK * D * !SE * !SI)**	0.00110	0.00119	0.00136
	SN	**(!CK * !D * SE * SI)**	0.00144	0.00151	0.00169
	SN	**(!CK * !D * SE * SI)**	-0.00006	-0.00004	-0.00004
	SN	**(!CK * !D * SE * SI)**	0.00003	0.00004	0.00006
	SN	**(!CK * !D * SE * SI)**	0.00110	0.00119	0.00136
	SN	**(!CK * !D * SE * !SI)**	0.00149	0.00156	0.00174
	SN	**(!CK * !D * SE * !SI)**	-0.00007	-0.00005	-0.00003
	SN	**(!CK * !D * SE * !SI)**	0.00003	0.00005	0.00007
	SN	**(!CK * !D * SE * !SI)**	0.00113	0.00121	0.00138
	SN	**(!CK * !D * !SE * SI)**	0.00149	0.00156	0.00174
	SN	**(!CK * !D * !SE * SI)**	-0.00006	-0.00005	-0.00002
	SN	**(!CK * !D * !SE * SI)**	0.00003	0.00005	0.00007
	SN	**(!CK * !D * !SE * SI)**	0.00114	0.00121	0.00138
	SN	**(!CK * !D * !SE * !SI)**	0.00149	0.00156	0.00174
	SN	**(!CK * !D * !SE * !SI)**	-0.00006	-0.00005	-0.00002
	SN	**(!CK * !D * !SE * !SI)**	0.00003	0.00005	0.00007
	SN	**(!CK * !D * !SE * !SI)**	0.00114	0.00121	0.00138

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7R	0.00313	0.00322	0.00357
	0.00001	0.00002	0.00003
	0.00002	0.00003	0.00003
	0.00386	0.00396	0.00430

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7R	0.00386	0.00402	0.00455
	-0.00003	-0.00002	-0.00001
	-0.00001	-0.00000	0.00001
	0.00308	0.00323	0.00376

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7R	0.00142	0.00147	0.00165
	0.00014	0.00014	0.00015
	-0.00012	-0.00011	-0.00010
	0.00240	0.00244	0.00261

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7R	0.00257	0.00263	0.00286
	-0.00015	-0.00014	-0.00014
	0.00010	0.00011	0.00012
	0.00160	0.00165	0.00189

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7R	0.00239	0.00252	0.00301
	0.00000	0.00000	0.00000
	0.00005	0.00006	0.00007
	0.00310	0.00323	0.00372

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7R	0.00310	0.00337	0.00430
	0.00000	0.00000	0.00000
	0.00009	0.00011	0.00012
	0.00150	0.00176	0.00269

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7R	0.00123	0.00128	0.00143
	0.00013	0.00014	0.00014
	-0.00011	-0.00011	-0.00010
	0.00219	0.00222	0.00237

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7R	0.00274	0.00280	0.00300
	-0.00014	-0.00014	-0.00013
	0.00010	0.00011	0.00011
	0.00179	0.00185	0.00205

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7R	0.00038	0.00038	0.00038
	0.00004	0.00004	0.00004
	0.00000	0.00000	0.00000
	0.00106	0.00107	0.00107

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX0P5H7R	0.00017	0.00017	0.00018
	0.00000	0.00000	0.00001
	0.00000	0.00000	0.00000
	-0.00028	-0.00027	-0.00025

SDFFSX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Async Set
Q = !SN ? 1 : rising(CK) ? (SE&SI| !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	SE	SI	SN	Q	QN
R	0	0	x	1	0	1
R	x	1	0	1	0	1
R	x	1	1	1	1	0
R	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFSX1H7R	11.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	SE	SI	SN	Q	QN
SDFFSX1H7R	0.00115	0.00075	0.00183	0.00073	0.00073	0.07028	0.07049

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSX1H7R	0.00000	1.16295	1.52981

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX1H7R	CK->Q (RR)	(SE * SN)	0.11231	0.26218	0.62453
	CK->Q (RR)	(!SE * SN)	0.11233	0.26220	0.62421
	SN->Q (FR)	(CK * D * SE * SI)	0.09917	0.26528	0.67454
	SN->Q (FR)	(CK * D * SE * !SI)	0.09917	0.26527	0.67454
	SN->Q (FR)	(CK * D * !SE * SI)	0.09917	0.26528	0.67454
	SN->Q (FR)	(CK * D * !SE * !SI)	0.09917	0.26528	0.67454
	SN->Q (FR)	(CK * !D * SE * SI)	0.09917	0.26528	0.67455
	SN->Q (FR)	(CK * !D * SE * !SI)	0.09917	0.26528	0.67454
	SN->Q (FR)	(CK * !D * !SE * SI)	0.09917	0.26528	0.67454
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.09917	0.26528	0.67454
	SN->Q (FR)	(!CK * D * SE * SI)	0.08657	0.24766	0.64343
	SN->Q (FR)	(!CK * D * SE * !SI)	0.09162	0.25572	0.65878
	SN->Q (FR)	(!CK * D * !SE * SI)	0.08657	0.24767	0.64363
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.08657	0.24767	0.64363
	SN->Q (FR)	(!CK * !D * SE * SI)	0.08657	0.24766	0.64348
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.09162	0.25572	0.65878
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.09164	0.25572	0.65878
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.09164	0.25572	0.65878

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX1H7R	CK->Q (RF)	(SE * SN)	0.12710	0.25293	0.54309
	CK->Q (RF)	(!SE * SN)	0.12711	0.25294	0.54316

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX1H7R	CK->QN (RR)	(SE * SN)	0.09487	0.25403	0.61808
	CK->QN (RR)	(!SE * SN)	0.09487	0.25403	0.61819

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX1H7R	CK->QN (RF)	(SE * SN)	0.07959	0.21611	0.51739
	CK->QN (RF)	(!SE * SN)	0.07959	0.21613	0.51738
	SN->QN (FF)	(CK * D * SE * SI)	0.06445	0.22179	0.58333
	SN->QN (FF)	(CK * D * SE * !SI)	0.06445	0.22178	0.58333
	SN->QN (FF)	(CK * D * !SE * SI)	0.06445	0.22179	0.58330
	SN->QN (FF)	(CK * D * !SE * !SI)	0.06445	0.22179	0.58330
	SN->QN (FF)	(CK * !D * SE * SI)	0.06445	0.22179	0.58333
	SN->QN (FF)	(CK * !D * SE * !SI)	0.06445	0.22179	0.58333
	SN->QN (FF)	(CK * !D * !SE * SI)	0.06445	0.22178	0.58333
	SN->QN (FF)	(CK * !D * !SE * !SI)	0.06445	0.22179	0.58333
	SN->QN (FF)	(!CK * D * SE * SI)	0.05515	0.19927	0.53585
	SN->QN (FF)	(!CK * D * SE * !SI)	0.05961	0.20720	0.55184
	SN->QN (FF)	(!CK * D * !SE * SI)	0.05515	0.19927	0.53585
	SN->QN (FF)	(!CK * D * !SE * !SI)	0.05515	0.19927	0.53585
	SN->QN (FF)	(!CK * !D * SE * SI)	0.05515	0.19927	0.53585
	SN->QN (FF)	(!CK * !D * SE * !SI)	0.05961	0.20720	0.55184
	SN->QN (FF)	(!CK * !D * !SE * SI)	0.05961	0.20721	0.55184
	SN->QN (FF)	(!CK * !D * !SE * !SI)	0.05961	0.20721	0.55184

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7R	**hold**	**CK (R)**	-0.09544	-0.04131	-0.00327
	setup	**CK (R)**	0.03457	0.08503	0.17704

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7R	**hold**	**CK (R)**	-0.13802	-0.03676	0.04750
	setup	**CK (R)**	-0.01184	0.08593	0.21129

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7R	**hold**	**CK (R)**	-0.07172	-0.02448	0.02962
	setup	**CK (R)**	0.03087	0.09371	0.17769

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7R	**hold**	**CK (R)**	-0.10742	-0.02451	0.05372
	setup	**CK (R)**	0.04873	0.09806	0.20318

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7R	hold	CK (R)	-0.10346	-0.04675	-0.00748
	setup	CK (R)	0.04002	0.09341	0.18865

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7R	hold	CK (R)	-0.14324	-0.04368	0.03822
	setup	CK (R)	-0.00007	0.09509	0.22276

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX1H7R	recovery	CK (R)	-0.11556	-0.01360	0.15833
	removal	CK (R)	0.07365	0.11939	0.20099

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSX1H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFSX1H7R	CK	(SE * SN)	0.00208	0.00216	0.00240
	CK	(SE * SN)	-0.00003	-0.00002	-0.00001
	CK	(SE * SN)	0.00000	0.00001	0.00004
	CK	(SE * SN)	0.00241	0.00251	0.00275
	CK	(!SE * SN)	0.00208	0.00216	0.00239
	CK	(!SE * SN)	-0.00003	-0.00002	-0.00001
	CK	(!SE * SN)	0.00000	0.00001	0.00004
	CK	(!SE * SN)	0.00242	0.00251	0.00275
	SN	(CK * D * SE * SI)	0.00211	0.00218	0.00239
	SN	(CK * D * SE * SI)	-0.00004	-0.00002	-0.00001
	SN	(CK * D * SE * SI)	0.00001	0.00002	0.00004
	SN	(CK * D * SE * SI)	0.00180	0.00189	0.00211
	SN	(CK * D * SE * !SI)	0.00213	0.00221	0.00242
	SN	(CK * D * SE * !SI)	-0.00004	-0.00002	-0.00001
	SN	(CK * D * SE * !SI)	0.00000	0.00002	0.00003
	SN	(CK * D * SE * !SI)	0.00184	0.00192	0.00213
	SN	(CK * D * !SE * SI)	0.00210	0.00218	0.00239
	SN	(CK * D * !SE * SI)	-0.00004	-0.00002	-0.00001
	SN	(CK * D * !SE * SI)	-0.00000	0.00002	0.00005
	SN	(CK * D * !SE * SI)	0.00182	0.00189	0.00211
	SN	(CK * D * !SE * !SI)	0.00210	0.00218	0.00239
	SN	(CK * D * !SE * !SI)	-0.00004	-0.00002	-0.00001
	SN	(CK * D * !SE * !SI)	-0.00000	0.00002	0.00005
	SN	(CK * D * !SE * !SI)	0.00182	0.00189	0.00211
	SN	(CK * !D * SE * SI)	0.00211	0.00218	0.00239
	SN	(CK * !D * SE * SI)	-0.00004	-0.00002	-0.00001
	SN	(CK * !D * SE * SI)	0.00001	0.00002	0.00004
	SN	(CK * !D * SE * SI)	0.00180	0.00189	0.00211
	SN	(CK * !D * SE * !SI)	0.00213	0.00221	0.00242
	SN	(CK * !D * SE * !SI)	-0.00004	-0.00002	-0.00001
	SN	(CK * !D * SE * !SI)	0.00000	0.00002	0.00003
	SN	(CK * !D * SE * !SI)	0.00184	0.00192	0.00213
	SN	(CK * !D * !SE * SI)	0.00212	0.00220	0.00242
	SN	(CK * !D * !SE * SI)	-0.00004	-0.00002	0.00000
	SN	(CK * !D * !SE * SI)	0.00000	0.00002	0.00004
	SN	(CK * !D * !SE * SI)	0.00184	0.00192	0.00213
	SN	(CK * !D * !SE * !SI)	0.00212	0.00220	0.00242
	SN	(CK * !D * !SE * !SI)	-0.00004	-0.00002	0.00000
	SN	(CK * !D * !SE * !SI)	0.00000	0.00002	0.00004
	SN	(CK * !D * !SE * !SI)	0.00184	0.00192	0.00213
	SN	(!CK * D * SE * SI)	0.00149	0.00157	0.00177
	SN	(!CK * D * SE * SI)	-0.00004	-0.00004	-0.00002
	SN	(!CK * D * SE * SI)	0.00003	0.00004	0.00007
	SN	(!CK * D * SE * SI)	0.00116	0.00125	0.00144
	SN	(!CK * D * SE * !SI)	0.00155	0.00162	0.00182
	SN	(!CK * D * SE * !SI)	-0.00007	-0.00005	-0.00003
	SN	(!CK * D * SE * !SI)	0.00004	0.00006	0.00008
	SN	(!CK * D * SE * !SI)	0.00118	0.00126	0.00146
	SN	(!CK * D * !SE * SI)	0.00149	0.00157	0.00177
	SN	(!CK * D * !SE * SI)	-0.00004	-0.00004	-0.00002
	SN	(!CK * D * !SE * SI)	0.00004	0.00005	0.00006
	SN	(!CK * D * !SE * SI)	0.00116	0.00124	0.00144
	SN	(!CK * D * !SE * !SI)	0.00149	0.00157	0.00177
	SN	(!CK * D * !SE * !SI)	-0.00004	-0.00004	-0.00002
	SN	(!CK * D * !SE * !SI)	0.00004	0.00005	0.00006
	SN	(!CK * D * !SE * !SI)	0.00116	0.00124	0.00144
	SN	(!CK * !D * SE * SI)	0.00149	0.00157	0.00177
	SN	(!CK * !D * SE * SI)	-0.00004	-0.00004	-0.00002
	SN	(!CK * !D * SE * SI)	0.00002	0.00004	0.00007
	SN	(!CK * !D * SE * SI)	0.00116	0.00125	0.00144
	SN	(!CK * !D * SE * !SI)	0.00155	0.00162	0.00182
	SN	(!CK * !D * SE * !SI)	-0.00007	-0.00005	-0.00003
	SN	(!CK * !D * SE * !SI)	0.00004	0.00006	0.00008
	SN	(!CK * !D * SE * !SI)	0.00118	0.00126	0.00146
	SN	(!CK * !D * !SE * SI)	0.00155	0.00162	0.00182
	SN	(!CK * !D * !SE * SI)	-0.00007	-0.00005	-0.00004
	SN	(!CK * !D * !SE * SI)	0.00003	0.00005	0.00006
	SN	(!CK * !D * !SE * SI)	0.00120	0.00127	0.00146
	SN	(!CK * !D * !SE * !SI)	0.00155	0.00162	0.00182
	SN	(!CK * !D * !SE * !SI)	-0.00007	-0.00005	-0.00004
	SN	(!CK * !D * !SE * !SI)	0.00005	0.00005	0.00006
	SN	(!CK * !D * !SE * !SI)	0.00120	0.00127	0.00146

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX1H7R	CK	(SE * SN)	0.00207	0.00216	0.00242
	CK	(SE * SN)	0.00002	0.00002	0.00003
	CK	(SE * SN)	-0.00002	-0.00001	0.00000
	CK	(SE * SN)	0.00251	0.00259	0.00285
	CK	(!SE * SN)	0.00207	0.00216	0.00242
	CK	(!SE * SN)	0.00002	0.00002	0.00004
	CK	(!SE * SN)	-0.00002	-0.00001	0.00000
	CK	(!SE * SN)	0.00251	0.00259	0.00285

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX1H7R	CK	(SE * SN)	0.00206	0.00216	0.00242
	CK	(SE * SN)	0.00000	0.00002	0.00004
	CK	(SE * SN)	-0.00002	-0.00001	0.00000
	CK	(SE * SN)	0.00251	0.00259	0.00286
	CK	(!SE * SN)	0.00206	0.00216	0.00243
	CK	(!SE * SN)	0.00002	0.00002	0.00004
	CK	(!SE * SN)	-0.00002	-0.00001	0.00000
	CK	(!SE * SN)	0.00251	0.00260	0.00287

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFSX1H7R	**CK**	**(SE * SN)**	0.00208	0.00216	0.00239
	CK	**(SE * SN)**	-0.00003	-0.00002	0.00000
	CK	**(SE * SN)**	0.00000	0.00001	0.00003
	CK	**(SE * SN)**	0.00242	0.00251	0.00274
	CK	**(!SE * SN)**	0.00207	0.00216	0.00238
	CK	**(!SE * SN)**	-0.00003	-0.00002	-0.00001
	CK	**(!SE * SN)**	0.00000	0.00001	0.00003
	CK	**(!SE * SN)**	0.00243	0.00251	0.00273
	SN	**(CK * D * SE * SI)**	0.00211	0.00218	0.00239
	SN	**(CK * D * SE * SI)**	-0.00002	-0.00002	-0.00001
	SN	**(CK * D * SE * SI)**	0.00000	0.00002	0.00004
	SN	**(CK * D * SE * SI)**	0.00181	0.00189	0.00211
	SN	**(CK * D * SE * !SI)**	0.00213	0.00221	0.00242
	SN	**(CK * D * SE * !SI)**	-0.00003	-0.00002	-0.00001
	SN	**(CK * D * SE * !SI)**	0.00000	0.00002	0.00004
	SN	**(CK * D * SE * !SI)**	0.00184	0.00192	0.00213
	SN	**(CK * D * !SE * SI)**	0.00211	0.00218	0.00239
	SN	**(CK * D * !SE * SI)**	-0.00002	-0.00002	0.00000
	SN	**(CK * D * !SE * SI)**	-0.00000	0.00003	0.00034
	SN	**(CK * D * !SE * SI)**	0.00154	0.00188	0.00211
	SN	**(CK * D * !SE * !SI)**	0.00211	0.00218	0.00239
	SN	**(CK * D * !SE * !SI)**	-0.00002	-0.00002	-0.00001
	SN	**(CK * D * !SE * !SI)**	-0.00000	0.00003	0.00034
	SN	**(CK * D * !SE * !SI)**	0.00154	0.00188	0.00211
	SN	**(CK * !D * SE * SI)**	0.00211	0.00218	0.00239
	SN	**(CK * !D * SE * SI)**	-0.00002	-0.00002	-0.00000
	SN	**(CK * !D * SE * SI)**	0.00000	0.00002	0.00004
	SN	**(CK * !D * SE * SI)**	0.00181	0.00189	0.00211
	SN	**(CK * !D * SE * !SI)**	0.00213	0.00221	0.00242
	SN	**(CK * !D * SE * !SI)**	-0.00002	-0.00002	-0.00001
	SN	**(CK * !D * SE * !SI)**	0.00002	0.00002	0.00004
	SN	**(CK * !D * SE * !SI)**	0.00184	0.00192	0.00213
	SN	**(CK * !D * !SE * SI)**	0.00213	0.00221	0.00242
	SN	**(CK * !D * !SE * SI)**	-0.00002	-0.00002	-0.00001
	SN	**(CK * !D * !SE * SI)**	-0.00000	0.00002	0.00004
	SN	**(CK * !D * !SE * SI)**	0.00184	0.00192	0.00213
	SN	**(CK * !D * !SE * !SI)**	0.00213	0.00221	0.00242
	SN	**(CK * !D * !SE * !SI)**	-0.00002	-0.00002	-0.00001
	SN	**(CK * !D * !SE * !SI)**	0.00002	0.00002	0.00004
	SN	**(CK * !D * !SE * !SI)**	0.00184	0.00192	0.00213
	SN	**(!CK * D * SE * SI)**	0.00150	0.00157	0.00176
	SN	**(!CK * D * SE * SI)**	-0.00006	-0.00004	-0.00003
	SN	**(!CK * D * SE * SI)**	0.00002	0.00004	0.00006
	SN	**(!CK * D * SE * SI)**	0.00116	0.00124	0.00144
	SN	**(!CK * D * SE * !SI)**	0.00155	0.00162	0.00182
	SN	**(!CK * D * SE * !SI)**	-0.00007	-0.00005	-0.00002
	SN	**(!CK * D * SE * !SI)**	0.00003	0.00005	0.00006
	SN	**(!CK * D * SE * !SI)**	0.00120	0.00127	0.00146
	SN	**(!CK * D * !SE * SI)**	0.00150	0.00157	0.00176
	SN	**(!CK * D * !SE * SI)**	-0.00006	-0.00004	-0.00004
	SN	**(!CK * D * !SE * SI)**	0.00003	0.00004	0.00006
	SN	**(!CK * D * !SE * SI)**	0.00116	0.00124	0.00144
	SN	**(!CK * D * !SE * !SI)**	0.00150	0.00157	0.00176
	SN	**(!CK * D * !SE * !SI)**	-0.00006	-0.00004	-0.00004
	SN	**(!CK * D * !SE * !SI)**	0.00003	0.00004	0.00006
	SN	**(!CK * D * !SE * !SI)**	0.00116	0.00124	0.00144
	SN	**(!CK * !D * SE * SI)**	0.00150	0.00157	0.00176
	SN	**(!CK * !D * SE * SI)**	-0.00006	-0.00004	-0.00003
	SN	**(!CK * !D * SE * SI)**	0.00002	0.00004	0.00006
	SN	**(!CK * !D * SE * SI)**	0.00116	0.00125	0.00144
	SN	**(!CK * !D * SE * !SI)**	0.00155	0.00162	0.00182
	SN	**(!CK * !D * SE * !SI)**	-0.00007	-0.00005	-0.00002
	SN	**(!CK * !D * SE * !SI)**	0.00003	0.00005	0.00007
	SN	**(!CK * !D * SE * !SI)**	0.00119	0.00127	0.00146
	SN	**(!CK * !D * !SE * SI)**	0.00155	0.00162	0.00182
	SN	**(!CK * !D * !SE * SI)**	-0.00007	-0.00005	-0.00002
	SN	**(!CK * !D * !SE * SI)**	0.00003	0.00005	0.00007
	SN	**(!CK * !D * !SE * SI)**	0.00119	0.00127	0.00146
	SN	**(!CK * !D * !SE * !SI)**	0.00155	0.00162	0.00182
	SN	**(!CK * !D * !SE * !SI)**	-0.00008	-0.00005	-0.00004
	SN	**(!CK * !D * !SE * !SI)**	0.00003	0.00005	0.00007
	SN	**(!CK * !D * !SE * !SI)**	0.00119	0.00127	0.00146

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7R	0.00317	0.00326	0.00361
	0.00002	0.00002	0.00003
	0.00003	0.00004	0.00006
	0.00390	0.00398	0.00433

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7R	0.00388	0.00403	0.00456
	-0.00002	-0.00002	-0.00002
	-0.00001	-0.00000	0.00001
	0.00310	0.00325	0.00378

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7R	0.00144	0.00150	0.00168
	0.00014	0.00014	0.00014
	-0.00011	-0.00011	-0.00011
	0.00241	0.00246	0.00263

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7R	0.00258	0.00264	0.00287
	-0.00014	-0.00014	-0.00013
	0.00011	0.00011	0.00011
	0.00161	0.00167	0.00191

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7R	0.00240	0.00253	0.00302
	0.00000	0.00000	0.00000
	0.00005	0.00006	0.00006
	0.00312	0.00325	0.00374

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7R	0.00313	0.00338	0.00431
	0.00000	0.00000	0.00000
	0.00009	0.00011	0.00012
	0.00151	0.00178	0.00272

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7R	0.00126	0.00130	0.00146
	0.00013	0.00013	0.00014
	-0.00011	-0.00011	-0.00010
	0.00220	0.00224	0.00239

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7R	0.00275	0.00281	0.00302
	-0.00014	-0.00013	-0.00013
	0.00010	0.00011	0.00011
	0.00181	0.00186	0.00208

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7R	0.00038	0.00039	0.00039
	0.00004	0.00004	0.00004
	0.00000	0.00000	0.00000
	0.00108	0.00109	0.00109

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX1H7R	0.00017	0.00017	0.00018
	0.00000	0.00000	0.00001
	0.00000	0.00000	0.00000
	-0.00028	-0.00027	-0.00026

SDFFSX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Async Set
Q = !SN ? 1 : rising(CK) ? (SE&SI| !SE&D) : pre_Q
QN = !Q

Truth Table

INPUT					OUTPUT	
CK	D	SE	SI	SN	Q	QN
R	0	0	x	1	0	1
R	x	1	0	1	0	1
R	x	1	1	1	1	0
R	1	0	x	1	1	0
x	x	x	x	0	1	0
x	x	x	x	1	IQ	IQN

Footprint

Cell Name	Area
SDFFSX2H7R	11.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)	
	CK	D	SE	SI	SN	Q	QN
SDFFSX2H7R	0.00113	0.00075	0.00183	0.00073	0.00073	0.08106	0.08119

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFSX2H7R	0.00000	1.21735	1.60181

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX2H7R	CK->Q (RR)	(SE * SN)	0.10863	0.25859	0.62080
	CK->Q (RR)	(!SE * SN)	0.10865	0.25860	0.62078
	SN->Q (FR)	(CK * D * SE * SI)	0.10007	0.26660	0.67722
	SN->Q (FR)	(CK * D * SE * !SI)	0.10007	0.26658	0.67711
	SN->Q (FR)	(CK * D * !SE * SI)	0.10007	0.26659	0.67703
	SN->Q (FR)	(CK * D * !SE * !SI)	0.10007	0.26659	0.67703
	SN->Q (FR)	(CK * !D * SE * SI)	0.10007	0.26660	0.67702
	SN->Q (FR)	(CK * !D * SE * !SI)	0.10007	0.26659	0.67714
	SN->Q (FR)	(CK * !D * !SE * SI)	0.10007	0.26659	0.67703
	SN->Q (FR)	(CK * !D * !SE * !SI)	0.10007	0.26659	0.67703
	SN->Q (FR)	(!CK * D * SE * SI)	0.08699	0.24847	0.64528
	SN->Q (FR)	(!CK * D * SE * !SI)	0.09210	0.25651	0.66066
	SN->Q (FR)	(!CK * D * !SE * SI)	0.08699	0.24847	0.64489
	SN->Q (FR)	(!CK * D * !SE * !SI)	0.08699	0.24847	0.64489
	SN->Q (FR)	(!CK * !D * SE * SI)	0.08699	0.24847	0.64492
	SN->Q (FR)	(!CK * !D * SE * !SI)	0.09210	0.25652	0.66066
	SN->Q (FR)	(!CK * !D * !SE * SI)	0.09210	0.25651	0.66066
	SN->Q (FR)	(!CK * !D * !SE * !SI)	0.09210	0.25651	0.66067

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX2H7R	CK->Q (RF)	(SE * SN)	0.12510	0.25135	0.54363
	CK->Q (RF)	(!SE * SN)	0.12510	0.25137	0.54358

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX2H7R	CK->QN (RR)	(SE * SN)	0.09373	0.25383	0.61850
	CK->QN (RR)	(!SE * SN)	0.09373	0.25384	0.61850

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFSX2H7R	CK->QN (RF)	(SE * SN)	0.07682	0.21336	0.51548
	CK->QN (RF)	(!SE * SN)	0.07684	0.21338	0.51548
	SN->QN (FF)	(CK * D * SE * SI)	0.06527	0.22431	0.58813
	SN->QN (FF)	(CK * D * SE * !SI)	0.06527	0.22429	0.58812
	SN->QN (FF)	(CK * D * !SE * SI)	0.06527	0.22431	0.58812
	SN->QN (FF)	(CK * D * !SE * !SI)	0.06527	0.22430	0.58812
	SN->QN (FF)	(CK * !D * SE * SI)	0.06527	0.22430	0.58813
	SN->QN (FF)	(CK * !D * SE * !SI)	0.06527	0.22429	0.58812
	SN->QN (FF)	(CK * !D * !SE * SI)	0.06527	0.22430	0.58813
	SN->QN (FF)	(CK * !D * !SE * !SI)	0.06527	0.22430	0.58813
	SN->QN (FF)	(!CK * D * SE * SI)	0.05553	0.20130	0.54117
	SN->QN (FF)	(!CK * D * SE * !SI)	0.06003	0.20919	0.55568
	SN->QN (FF)	(!CK * D * !SE * SI)	0.05553	0.20130	0.54117
	SN->QN (FF)	(!CK * D * !SE * !SI)	0.05553	0.20130	0.54117
	SN->QN (FF)	(!CK * !D * SE * SI)	0.05552	0.20130	0.54117
	SN->QN (FF)	(!CK * !D * SE * !SI)	0.06003	0.20919	0.55568
	SN->QN (FF)	(!CK * !D * !SE * SI)	0.06003	0.20918	0.55568
	SN->QN (FF)	(!CK * !D * !SE * !SI)	0.06003	0.20918	0.55568

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFSX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7R	**hold**	**CK (R)**	-0.09187	-0.03883	-0.00353
	setup	**CK (R)**	0.03120	0.08454	0.17692

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7R	**hold**	**CK (R)**	-0.13573	-0.03613	0.04617
	setup	**CK (R)**	-0.00946	0.08752	0.21581

Constraints(ns) for SE rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7R	**hold**	**CK (R)**	-0.06875	-0.02245	0.03029
	setup	**CK (R)**	0.03087	0.09422	0.17550

Constraints(ns) for SE falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7R	**hold**	**CK (R)**	-0.10663	-0.02396	0.05735
	setup	**CK (R)**	0.04792	0.09826	0.20678

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7R	hold	CK (R)	-0.10420	-0.04479	-0.00766
	setup	CK (R)	0.03998	0.09304	0.18842

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7R	hold	CK (R)	-0.14312	-0.04318	0.03584
	setup	CK (R)	0.00012	0.09663	0.22398

Constraints(ns) for SN rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFSX2H7R	recovery	CK (R)	-0.11482	-0.01100	0.16369
	removal	CK (R)	0.07386	0.11661	0.19386

Min Pulse Width (ns) for SN:

Cell Name	High	Low
SDFFSX2H7R	-	0.9851

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

SDFFSX2H7R	**CK**	**(SE * SN)**	0.00215	0.00224	0.00247
	CK	**(SE * SN)**	-0.00003	-0.00002	-0.00001
	CK	**(SE * SN)**	0.00000	0.00001	0.00001
	CK	**(SE * SN)**	0.00249	0.00258	0.00282
	CK	**(!SE * SN)**	0.00215	0.00224	0.00247
	CK	**(!SE * SN)**	-0.00003	-0.00002	-0.00001
	CK	**(!SE * SN)**	-0.00000	0.00001	0.00002
	CK	**(!SE * SN)**	0.00249	0.00258	0.00282
	SN	**(CK * D * SE * SI)**	0.00219	0.00227	0.00251
	SN	**(CK * D * SE * SI)**	-0.00006	-0.00002	0.00000
	SN	**(CK * D * SE * SI)**	-0.00000	0.00002	0.00004
	SN	**(CK * D * SE * SI)**	0.00188	0.00197	0.00221
	SN	**(CK * D * SE * !SI)**	0.00222	0.00230	0.00253
	SN	**(CK * D * SE * !SI)**	-0.00005	-0.00002	0.00001
	SN	**(CK * D * SE * !SI)**	0.00000	0.00002	0.00004
	SN	**(CK * D * SE * !SI)**	0.00192	0.00200	0.00224
	SN	**(CK * D * !SE * SI)**	0.00219	0.00227	0.00251
	SN	**(CK * D * !SE * SI)**	-0.00006	-0.00002	0.00000
	SN	**(CK * D * !SE * SI)**	-0.00000	0.00002	0.00010
	SN	**(CK * D * !SE * SI)**	0.00189	0.00197	0.00221
	SN	**(CK * D * !SE * !SI)**	0.00219	0.00227	0.00251
	SN	**(CK * D * !SE * !SI)**	-0.00006	-0.00002	0.00000
	SN	**(CK * D * !SE * !SI)**	-0.00000	0.00002	0.00010
	SN	**(CK * D * !SE * !SI)**	0.00189	0.00197	0.00221
	SN	**(CK * !D * SE * SI)**	0.00219	0.00227	0.00251
	SN	**(CK * !D * SE * SI)**	-0.00006	-0.00002	0.00000
	SN	**(CK * !D * SE * SI)**	-0.00000	0.00002	0.00004
	SN	**(CK * !D * SE * SI)**	0.00188	0.00197	0.00221
	SN	**(CK * !D * SE * !SI)**	0.00222	0.00230	0.00253
	SN	**(CK * !D * SE * !SI)**	-0.00004	-0.00002	0.00001
	SN	**(CK * !D * SE * !SI)**	-0.00000	0.00002	0.00004
	SN	**(CK * !D * SE * !SI)**	0.00192	0.00200	0.00224
	SN	**(CK * !D * !SE * SI)**	0.00222	0.00230	0.00253
	SN	**(CK * !D * !SE * SI)**	-0.00005	-0.00002	0.00001
	SN	**(CK * !D * !SE * SI)**	0.00000	0.00002	0.00004
	SN	**(CK * !D * !SE * SI)**	0.00192	0.00200	0.00224
	SN	**(CK * !D * !SE * !SI)**	0.00222	0.00230	0.00253
	SN	**(CK * !D * !SE * !SI)**	-0.00004	-0.00002	0.00001
	SN	**(CK * !D * !SE * !SI)**	-0.00001	0.00002	0.00004
	SN	**(CK * !D * !SE * !SI)**	0.00192	0.00200	0.00224
	SN	**(!CK * D * SE * SI)**	0.00157	0.00164	0.00186
	SN	**(!CK * D * SE * SI)**	-0.00004	-0.00004	-0.00002
	SN	**(!CK * D * SE * SI)**	0.00001	0.00004	0.00005
	SN	**(!CK * D * SE * SI)**	0.00124	0.00132	0.00153
	SN	**(!CK * D * SE * !SI)**	0.00162	0.00169	0.00191
	SN	**(!CK * D * SE * !SI)**	-0.00006	-0.00005	-0.00005
	SN	**(!CK * D * SE * !SI)**	0.00005	0.00006	0.00007
	SN	**(!CK * D * SE * !SI)**	0.00127	0.00134	0.00155
	SN	**(!CK * D * !SE * SI)**	0.00157	0.00164	0.00186
	SN	**(!CK * D * !SE * SI)**	-0.00004	-0.00004	-0.00004
	SN	**(!CK * D * !SE * SI)**	0.00002	0.00004	0.00004
	SN	**(!CK * D * !SE * SI)**	0.00124	0.00132	0.00153
	SN	**(!CK * D * !SE * !SI)**	0.00157	0.00164	0.00186
	SN	**(!CK * D * !SE * !SI)**	-0.00004	-0.00004	-0.00004
	SN	**(!CK * D * !SE * !SI)**	0.00002	0.00004	0.00004
	SN	**(!CK * D * !SE * !SI)**	0.00124	0.00132	0.00153
	SN	**(!CK * !D * SE * SI)**	0.00157	0.00164	0.00186
	SN	**(!CK * !D * SE * SI)**	-0.00004	-0.00004	-0.00004
	SN	**(!CK * !D * SE * SI)**	0.00001	0.00004	0.00004
	SN	**(!CK * !D * SE * SI)**	0.00124	0.00132	0.00153
	SN	**(!CK * !D * SE * !SI)**	0.00162	0.00169	0.00191
	SN	**(!CK * !D * SE * !SI)**	-0.00006	-0.00005	-0.00003
	SN	**(!CK * !D * SE * !SI)**	0.00004	0.00006	0.00008
	SN	**(!CK * !D * SE * !SI)**	0.00127	0.00134	0.00155
	SN	**(!CK * !D * !SE * SI)**	0.00162	0.00169	0.00191
	SN	**(!CK * !D * !SE * SI)**	-0.00007	-0.00005	-0.00005
	SN	**(!CK * !D * !SE * SI)**	0.00005	0.00006	0.00006
	SN	**(!CK * !D * !SE * SI)**	0.00127	0.00134	0.00155
	SN	**(!CK * !D * !SE * !SI)**	0.00162	0.00169	0.00191
	SN	**(!CK * !D * !SE * !SI)**	-0.00007	-0.00005	-0.00005
	SN	**(!CK * !D * !SE * !SI)**	0.00005	0.00006	0.00007
	SN	**(!CK * !D * !SE * !SI)**	0.00127	0.00134	0.00155

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX2H7R	CK	(SE * SN)	0.00216	0.00225	0.00252
	CK	(SE * SN)	0.00001	0.00002	0.00003
	CK	(SE * SN)	-0.00001	-0.00001	0.00000
	CK	(SE * SN)	0.00258	0.00267	0.00296
	CK	(!SE * SN)	0.00216	0.00225	0.00252
	CK	(!SE * SN)	0.00001	0.00002	0.00004
	CK	(!SE * SN)	-0.00002	-0.00001	0.00000
	CK	(!SE * SN)	0.00258	0.00267	0.00296

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFSX2H7R	CK	(SE * SN)	0.00214	0.00225	0.00253
	CK	(SE * SN)	0.00000	0.00002	0.00005
	CK	(SE * SN)	-0.00002	-0.00001	0.00000
	CK	(SE * SN)	0.00259	0.00268	0.00297
	CK	(!SE * SN)	0.00214	0.00225	0.00252
	CK	(!SE * SN)	0.00000	0.00002	0.00005
	CK	(!SE * SN)	-0.00002	-0.00001	0.00001
	CK	(!SE * SN)	0.00256	0.00267	0.00295

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max

	CK	**(SE * SN)**	0.00215	0.00224	0.00249
	CK	**(SE * SN)**	-0.00003	-0.00002	-0.00000
	CK	**(SE * SN)**	0.00000	0.00001	0.00003
	CK	**(SE * SN)**	0.00250	0.00258	0.00284
	CK	**(!SE * SN)**	0.00215	0.00224	0.00247
	CK	**(!SE * SN)**	-0.00003	-0.00002	0.00000
	CK	**(!SE * SN)**	-0.00001	0.00001	0.00003
	CK	**(!SE * SN)**	0.00248	0.00258	0.00281
	SN	**(CK * D * SE * SI)**	0.00220	0.00227	0.00251
	SN	**(CK * D * SE * SI)**	-0.00003	-0.00002	0.00000
	SN	**(CK * D * SE * SI)**	0.00000	0.00002	0.00005
	SN	**(CK * D * SE * SI)**	0.00188	0.00197	0.00221
	SN	**(CK * D * SE * !SI)**	0.00222	0.00230	0.00253
	SN	**(CK * D * SE * !SI)**	-0.00004	-0.00002	0.00000
	SN	**(CK * D * SE * !SI)**	0.00000	0.00002	0.00004
	SN	**(CK * D * SE * !SI)**	0.00191	0.00200	0.00224
	SN	**(CK * D * !SE * SI)**	0.00220	0.00227	0.00251
	SN	**(CK * D * !SE * SI)**	-0.00004	-0.00002	-0.00002
	SN	**(CK * D * !SE * SI)**	-0.00003	0.00002	0.00005
	SN	**(CK * D * !SE * SI)**	0.00190	0.00197	0.00221
	SN	**(CK * D * !SE * !SI)**	0.00219	0.00227	0.00251
	SN	**(CK * D * !SE * !SI)**	-0.00004	-0.00002	-0.00002
	SN	**(CK * D * !SE * !SI)**	-0.00003	0.00002	0.00005
	SN	**(CK * D * !SE * !SI)**	0.00189	0.00197	0.00221
	SN	**(CK * !D * SE * SI)**	0.00220	0.00227	0.00251
	SN	**(CK * !D * SE * SI)**	-0.00003	-0.00002	0.00000
	SN	**(CK * !D * SE * SI)**	0.00000	0.00002	0.00005
	SN	**(CK * !D * SE * SI)**	0.00188	0.00197	0.00221
	SN	**(CK * !D * SE * !SI)**	0.00222	0.00230	0.00253
	SN	**(CK * !D * SE * !SI)**	-0.00004	-0.00002	0.00000
	SN	**(CK * !D * SE * !SI)**	0.00000	0.00002	0.00004
	SN	**(CK * !D * SE * !SI)**	0.00191	0.00200	0.00224
	SN	**(CK * !D * !SE * SI)**	0.00222	0.00230	0.00253
	SN	**(CK * !D * !SE * SI)**	-0.00004	-0.00002	0.00000
	SN	**(CK * !D * !SE * SI)**	0.00000	0.00002	0.00004
SDFFSX2H7R	**SN**	**(CK * !D * !SE * SI)**	0.00191	0.00200	0.00224
	SN	**(CK * !D * !SE * !SI)**	0.00222	0.00230	0.00253
	SN	**(CK * !D * !SE * !SI)**	-0.00004	-0.00002	0.00000
	SN	**(CK * !D * !SE * !SI)**	0.00000	0.00002	0.00004
	SN	**(CK * !D * !SE * !SI)**	0.00191	0.00200	0.00224
	SN	**(!CK * D * SE * SI)**	0.00156	0.00164	0.00186
	SN	**(!CK * D * SE * SI)**	-0.00006	-0.00004	-0.00004
	SN	**(!CK * D * SE * SI)**	0.00002	0.00004	0.00006
	SN	**(!CK * D * SE * SI)**	0.00123	0.00132	0.00153
	SN	**(!CK * D * SE * !SI)**	0.00162	0.00169	0.00191
	SN	**(!CK * D * SE * !SI)**	-0.00006	-0.00005	-0.00002
	SN	**(!CK * D * SE * !SI)**	0.00003	0.00005	0.00006
	SN	**(!CK * D * SE * !SI)**	0.00127	0.00134	0.00155
	SN	**(!CK * D * !SE * SI)**	0.00157	0.00164	0.00186
	SN	**(!CK * D * !SE * SI)**	-0.00005	-0.00004	-0.00002
	SN	**(!CK * D * !SE * SI)**	0.00003	0.00004	0.00006
	SN	**(!CK * D * !SE * SI)**	0.00123	0.00132	0.00153
	SN	**(!CK * D * !SE * !SI)**	0.00157	0.00164	0.00186
	SN	**(!CK * D * !SE * !SI)**	-0.00005	-0.00004	-0.00002
	SN	**(!CK * D * !SE * !SI)**	0.00002	0.00004	0.00006
	SN	**(!CK * D * !SE * !SI)**	0.00123	0.00132	0.00153
	SN	**(!CK * !D * SE * SI)**	0.00156	0.00164	0.00186
	SN	**(!CK * !D * SE * SI)**	-0.00006	-0.00004	-0.00004
	SN	**(!CK * !D * SE * SI)**	0.00002	0.00004	0.00006
	SN	**(!CK * !D * SE * SI)**	0.00123	0.00132	0.00153
	SN	**(!CK * !D * SE * !SI)**	0.00162	0.00169	0.00191
	SN	**(!CK * !D * SE * !SI)**	-0.00006	-0.00005	-0.00002
	SN	**(!CK * !D * SE * !SI)**	0.00003	0.00005	0.00007
	SN	**(!CK * !D * SE * !SI)**	0.00127	0.00134	0.00155
	SN	**(!CK * !D * !SE * SI)**	0.00162	0.00169	0.00191
	SN	**(!CK * !D * !SE * SI)**	-0.00006	-0.00005	-0.00005
	SN	**(!CK * !D * !SE * SI)**	0.00003	0.00006	0.00007
	SN	**(!CK * !D * !SE * SI)**	0.00125	0.00134	0.00155
	SN	**(!CK * !D * !SE * !SI)**	0.00162	0.00169	0.00191
	SN	**(!CK * !D * !SE * !SI)**	-0.00006	-0.00005	-0.00004
	SN	**(!CK * !D * !SE * !SI)**	0.00003	0.00005	0.00007
	SN	**(!CK * !D * !SE * !SI)**	0.00125	0.00134	0.00155

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7R	0.00319	0.00330	0.00364
	0.00000	0.00001	0.00002
	0.00004	0.00005	0.00006
	0.00389	0.00398	0.00433

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7R	0.00387	0.00402	0.00455
	-0.00001	-0.00001	0.00000
	-0.00002	-0.00001	0.00000
	0.00312	0.00327	0.00379

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7R	0.00148	0.00153	0.00171
	0.00012	0.00013	0.00013
	-0.00011	-0.00011	-0.00010
	0.00242	0.00247	0.00264

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7R	0.00256	0.00262	0.00286
	-0.00013	-0.00012	-0.00012
	0.00010	0.00011	0.00011
	0.00161	0.00167	0.00191

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7R	0.00238	0.00251	0.00300
	0.00000	0.00000	0.00000
	0.00005	0.00006	0.00007
	0.00312	0.00325	0.00374

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7R	0.00310	0.00337	0.00430
	0.00000	0.00000	0.00000
	0.00009	0.00010	0.00012
	0.00153	0.00179	0.00272

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7R	0.00129	0.00133	0.00149
	0.00011	0.00012	0.00012
	-0.00010	-0.00010	-0.00009
	0.00221	0.00225	0.00240

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7R	0.00274	0.00280	0.00301
	-0.00012	-0.00012	-0.00011
	0.00010	0.00010	0.00010
	0.00181	0.00187	0.00208

Passive power(pJ) for SN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7R	0.00039	0.00039	0.00039
	0.00004	0.00005	0.00005
	0.00000	0.00000	0.00000
	0.00109	0.00109	0.00110

Passive power(pJ) for SN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFSX2H7R	0.00017	0.00017	0.00018
	0.00000	0.00001	0.00001
	0.00000	0.00000	0.00000
	-0.00028	-0.00027	-0.00025

SDFFTRQX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Sync Clear
Q = rising (CK) ? (SE&SI! !SE&(D&RN)) : pre_Q

Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	x	0	x	0
R	x	x	1	0	0
R	x	x	1	1	1
R	1	0	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFTRQX0P5H7R	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFTRQX0P5H7R	0.00082	0.00088	0.00086	0.00204	0.00070	0.05954

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFTRQX0P5H7R	0.00000	1.17799	1.63733

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX0P5H7R	**CK->Q (RR)**	0.09048	0.24438	0.60462

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX0P5H7R	**CK->Q (RF)**	0.07540	0.20981	0.50786

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFTRQX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7R	**hold**	**CK (R)**	-0.10796	-0.02762	0.04527
	setup	**CK (R)**	-0.02274	0.05870	0.14833

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7R	**hold**	**CK (R)**	-0.15633	-0.07521	-0.02683
	setup	**CK (R)**	0.04660	0.09742	0.18663

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7R	**hold**	**CK (R)**	-0.10105	-0.02497	0.04644
	setup	**CK (R)**	-0.02447	0.05659	0.14315

Constraints(ns) for RN falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7R	**hold**	**CK (R)**	-0.14898	-0.07157	-0.02798
	setup	**CK (R)**	0.04302	0.09330	0.18039

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7R	hold	CK (R)	-0.06666	-0.00569	0.06098
	setup	CK (R)	0.05502	0.08736	0.13282

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7R	hold	CK (R)	-0.10289	-0.02247	0.05031
	setup	CK (R)	0.03916	0.08356	0.16288

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7R	hold	CK (R)	-0.08887	-0.01514	0.05467
	setup	CK (R)	-0.03588	0.04557	0.13095

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX0P5H7R	hold	CK (R)	-0.15587	-0.07429	-0.03021
	setup	CK (R)	0.04913	0.09647	0.18372

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX0P5H7R	CK	0.00342	0.00359	0.00412
	CK	-0.00000	0.00000	0.00003
	CK	-0.00002	-0.00000	0.00000
	CK	0.00404	0.00419	0.00469

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX0P5H7R	CK	0.00327	0.00341	0.00384
	CK	-0.00003	-0.00000	0.00000
	CK	0.00000	0.00000	0.00002
	CK	0.00377	0.00390	0.00434

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7R	0.00161	0.00172	0.00212
	-0.00002	-0.00001	0.00000
	0.00000	0.00000	0.00000
	0.00215	0.00226	0.00266

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7R	0.00348	0.00362	0.00410
	0.00006	0.00006	0.00007
	-0.00000	-0.00000	0.00000
	0.00304	0.00317	0.00365

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7R	0.00152	0.00158	0.00182
	0.00013	0.00013	0.00014
	-0.00015	-0.00014	-0.00013
	0.00296	0.00304	0.00328

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7R	0.00302	0.00313	0.00351
	-0.00014	-0.00013	-0.00013
	0.00013	0.00014	0.00015
	0.00157	0.00167	0.00207

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7R	0.00152	0.00162	0.00200
	0.00013	0.00014	0.00014
	-0.00008	-0.00008	-0.00007
	0.00276	0.00287	0.00325

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7R	0.00288	0.00299	0.00343
	-0.00014	-0.00014	-0.00013
	0.00007	0.00008	0.00009
	0.00163	0.00174	0.00217

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7R	0.00229	0.00244	0.00298
	0.00000	0.00000	0.00000
	0.00001	0.00001	0.00002
	0.00314	0.00329	0.00382

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7R	0.00306	0.00334	0.00435
	0.00000	0.00000	0.00000
	0.00004	0.00005	0.00007
	0.00138	0.00166	0.00266

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7R	0.00134	0.00139	0.00160
	0.00008	0.00008	0.00009
	-0.00006	-0.00006	-0.00005
	0.00228	0.00233	0.00254

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX0P5H7R	0.00270	0.00276	0.00298
	-0.00009	-0.00008	-0.00008
	0.00005	0.00006	0.00006
	0.00176	0.00182	0.00204

SDFFTRQX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Sync Clear
Q = rising (CK) ? (SE&SI| !SE&(D&RN)) : pre_Q

Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	x	0	x	0
R	x	x	1	0	0
R	x	x	1	1	1
R	1	0	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFTRQX1H7R	9.52000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFTRQX1H7R	0.00092	0.00083	0.00085	0.00174	0.00070	0.07032

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFTRQX1H7R	0.00000	1.22632	1.71305

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX1H7R	CK->Q (RR)	0.08291	0.23448	0.58991

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX1H7R	CK->Q (RF)	0.06934	0.20172	0.49572

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFTRQX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7R	**hold**	**CK (R)**	-0.11542	-0.03713	0.03033
	setup	**CK (R)**	-0.00931	0.06480	0.15482

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7R	**hold**	**CK (R)**	-0.16095	-0.07725	-0.02822
	setup	**CK (R)**	0.04801	0.09922	0.19039

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7R	**hold**	**CK (R)**	-0.10853	-0.03475	0.02979
	setup	**CK (R)**	-0.01228	0.06293	0.14959

Constraints(ns) for RN falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7R	**hold**	**CK (R)**	-0.15389	-0.07308	-0.02612
	setup	**CK (R)**	0.04401	0.09502	0.18200

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7R	hold	CK (R)	-0.08065	-0.01601	0.04576
	setup	CK (R)	0.06144	0.09566	0.14332

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7R	hold	CK (R)	-0.11576	-0.03494	0.03276
	setup	CK (R)	0.03853	0.08544	0.16875

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7R	hold	CK (R)	-0.10607	-0.02819	0.03846
	setup	CK (R)	-0.01938	0.05552	0.14290

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX1H7R	hold	CK (R)	-0.16661	-0.08127	-0.03438
	setup	CK (R)	0.05201	0.10297	0.19381

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX1H7R	CK	0.00304	0.00323	0.00376
	CK	-0.00000	0.00000	0.00002
	CK	-0.00002	0.00000	0.00002
	CK	0.00369	0.00389	0.00441

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX1H7R	CK	0.00306	0.00321	0.00366
	CK	-0.00001	0.00000	0.00003
	CK	-0.00000	0.00000	0.00003
	CK	0.00371	0.00385	0.00434

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7R	0.00148	0.00159	0.00200
	-0.00001	-0.00001	-0.00000
	0.00000	0.00000	0.00000
	0.00214	0.00225	0.00266

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7R	0.00333	0.00347	0.00397
	0.00006	0.00006	0.00007
	-0.00000	-0.00000	0.00000
	0.00277	0.00291	0.00340

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7R	0.00175	0.00181	0.00204
	0.00012	0.00013	0.00014
	-0.00014	-0.00013	-0.00013
	0.00310	0.00317	0.00340

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7R	0.00296	0.00307	0.00345
	-0.00014	-0.00013	-0.00012
	0.00013	0.00013	0.00014
	0.00160	0.00171	0.00210

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7R	0.00172	0.00182	0.00220
	0.00013	0.00013	0.00014
	-0.00008	-0.00007	-0.00007
	0.00294	0.00304	0.00342

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7R	0.00284	0.00295	0.00338
	-0.00014	-0.00013	-0.00013
	0.00007	0.00007	0.00008
	0.00162	0.00173	0.00216

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7R	0.00166	0.00189	0.00274
	0.00007	0.00008	0.00009
	0.00000	0.00000	0.00000
	0.00317	0.00339	0.00425

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7R	0.00287	0.00312	0.00393
	-0.00000	0.00001	0.00002
	0.00000	0.00000	0.00000
	0.00209	0.00234	0.00315

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7R	0.00149	0.00154	0.00174
	0.00007	0.00008	0.00009
	-0.00007	-0.00006	-0.00005
	0.00238	0.00243	0.00262

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX1H7R	0.00283	0.00288	0.00310
	-0.00009	-0.00008	-0.00007
	0.00005	0.00006	0.00007
	0.00194	0.00200	0.00221

SDFFTRQX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Sync Clear
Q = rising (CK) ? (SE&SI! !SE&(D&RN)) : pre_Q

Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	x	0	x	0
R	x	x	1	0	0
R	x	x	1	1	1
R	1	0	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFTRQX2H7R	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFTRQX2H7R	0.00099	0.00083	0.00085	0.00182	0.00070	0.08905

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFTRQX2H7R	0.00000	1.36623	1.91071

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX2H7R	CK->Q (RR)	0.07824	0.22923	0.58255

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX2H7R	CK->Q (RF)	0.06871	0.20012	0.48900

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFTRQX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7R	**hold**	**CK (R)**	-0.11738	-0.04066	0.02015
	setup	**CK (R)**	-0.00424	0.06938	0.15657

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7R	**hold**	**CK (R)**	-0.16156	-0.07986	-0.03167
	setup	**CK (R)**	0.05391	0.10209	0.19137

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7R	**hold**	**CK (R)**	-0.11357	-0.03838	0.02515
	setup	**CK (R)**	-0.00657	0.06688	0.15097

Constraints(ns) for RN falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7R	**hold**	**CK (R)**	-0.15520	-0.07561	-0.02966
	setup	**CK (R)**	0.05094	0.09802	0.18558

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7R	hold	CK (R)	-0.08118	-0.02037	0.03678
	setup	CK (R)	0.06628	0.09483	0.13506

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7R	hold	CK (R)	-0.11478	-0.03578	0.02644
	setup	CK (R)	0.04438	0.08837	0.17096

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7R	hold	CK (R)	-0.11052	-0.03196	0.03096
	setup	CK (R)	-0.01259	0.05960	0.14607

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX2H7R	hold	CK (R)	-0.16885	-0.08361	-0.03840
	setup	CK (R)	0.05829	0.10564	0.19816

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX2H7R	CK	0.00332	0.00351	0.00415
	CK	-0.00002	-0.00000	0.00000
	CK	-0.00002	0.00000	0.00003
	CK	0.00399	0.00421	0.00483

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX2H7R	CK	0.00342	0.00359	0.00412
	CK	0.00000	0.00000	0.00002
	CK	-0.00003	0.00000	0.00003
	CK	0.00412	0.00430	0.00486

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7R	0.00155	0.00169	0.00218
	-0.00001	-0.00001	-0.00000
	0.00000	0.00000	0.00000
	0.00226	0.00239	0.00289

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7R	0.00350	0.00366	0.00423
	0.00006	0.00006	0.00007
	0.00000	0.00000	0.00000
	0.00288	0.00304	0.00362

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7R	0.00183	0.00190	0.00212
	0.00012	0.00013	0.00013
	-0.00013	-0.00013	-0.00012
	0.00318	0.00325	0.00348

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7R	0.00304	0.00314	0.00353
	-0.00013	-0.00013	-0.00012
	0.00012	0.00013	0.00013
	0.00170	0.00180	0.00218

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7R	0.00181	0.00191	0.00228
	0.00012	0.00013	0.00013
	-0.00008	-0.00007	-0.00007
	0.00301	0.00311	0.00349

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7R	0.00291	0.00302	0.00345
	-0.00013	-0.00013	-0.00012
	0.00007	0.00007	0.00009
	0.00171	0.00182	0.00224

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7R	0.00173	0.00199	0.00294
	0.00007	0.00008	0.00009
	0.00000	0.00000	0.00000
	0.00329	0.00354	0.00450

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7R	0.00300	0.00328	0.00417
	-0.00001	-0.00000	0.00001
	0.00000	0.00000	0.00000
	0.00214	0.00242	0.00332

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7R	0.00158	0.00163	0.00183
	0.00007	0.00008	0.00009
	-0.00006	-0.00006	-0.00005
	0.00246	0.00251	0.00270

Passive power(pJ) for SI falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX2H7R	0.00291	0.00296	0.00317
	-0.00009	-0.00008	-0.00007
	0.00005	0.00006	0.00007
	0.00203	0.00208	0.00229

SDFFTRQX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop with Sync Clear
Q = rising (CK) ? (SE&SI! !SE&(D&RN)) : pre_Q

Truth Table

INPUT					OUTPUT
CK	D	RN	SE	SI	Q
R	0	x	0	x	0
R	x	x	1	0	0
R	x	x	1	1	1
R	1	0	0	x	0
R	1	1	0	x	1
x	x	x	x	x	IQ

Footprint

Cell Name	Area
SDFFTRQX3H7R	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)					Max Cap(pf)
	CK	D	RN	SE	SI	Q
SDFFTRQX3H7R	0.00101	0.00090	0.00093	0.00188	0.00068	0.12589

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFTRQX3H7R	0.00000	1.47975	2.08222

Delay Information

Delay(ns) to Q rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX3H7R	CK->Q (RR)	0.07647	0.22801	0.58054

Delay(ns) to Q falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
SDFFTRQX3H7R	CK->Q (RF)	0.06804	0.20239	0.49685

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFTRQX3H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7R	**hold**	**CK (R)**	-0.11616	-0.03811	0.02381
	setup	**CK (R)**	-0.00719	0.06608	0.15387

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7R	**hold**	**CK (R)**	-0.15275	-0.07358	-0.02684
	setup	**CK (R)**	0.04555	0.09506	0.18250

Constraints(ns) for RN rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7R	**hold**	**CK (R)**	-0.10786	-0.03533	0.02529
	setup	**CK (R)**	-0.00776	0.06345	0.14779

Constraints(ns) for RN falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7R	**hold**	**CK (R)**	-0.14369	-0.06980	-0.02765
	setup	**CK (R)**	0.04561	0.09108	0.17572

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7R	hold	CK (R)	-0.08965	-0.02137	0.03809
	setup	CK (R)	0.06994	0.09882	0.14065

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7R	hold	CK (R)	-0.10783	-0.03245	0.02993
	setup	CK (R)	0.03674	0.07990	0.15590

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7R	hold	CK (R)	-0.10773	-0.03090	0.03260
	setup	CK (R)	-0.01420	0.05856	0.14532

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFTRQX3H7R	hold	CK (R)	-0.17688	-0.08887	-0.04378
	setup	CK (R)	0.06260	0.11060	0.20637

Power Information

Internal switching power(pJ) to Q rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX3H7R	CK	0.00352	0.00373	0.00435
	CK	-0.00004	-0.00001	0.00000
	CK	-0.00001	-0.00000	0.00000
	CK	0.00421	0.00441	0.00502

Internal switching power(pJ) to Q falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
SDFFTRQX3H7R	CK	0.00352	0.00373	0.00427
	CK	0.00000	0.00002	0.00005
	CK	0.00000	0.00000	0.00002
	CK	0.00430	0.00449	0.00513

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7R	0.00153	0.00167	0.00217
	-0.00001	-0.00001	-0.00000
	0.00000	0.00000	0.00000
	0.00226	0.00239	0.00289

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7R	0.00356	0.00372	0.00429
	0.00006	0.00007	0.00008
	-0.00000	-0.00000	0.00000
	0.00294	0.00310	0.00367

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7R	0.00186	0.00193	0.00220
	0.00015	0.00015	0.00016
	-0.00015	-0.00014	-0.00013
	0.00335	0.00343	0.00370

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7R	0.00323	0.00335	0.00379
	-0.00016	-0.00015	-0.00015
	0.00013	0.00014	0.00015
	0.00174	0.00186	0.00230

Passive power(pJ) for RN rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7R	0.00185	0.00196	0.00238
	0.00015	0.00016	0.00017
	-0.00008	-0.00008	-0.00007
	0.00318	0.00329	0.00372

Passive power(pJ) for RN falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7R	0.00309	0.00322	0.00371
	-0.00016	-0.00015	-0.00015
	0.00007	0.00008	0.00008
	0.00174	0.00188	0.00237

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7R	0.00175	0.00202	0.00304
	0.00007	0.00008	0.00010
	0.00000	0.00000	0.00000
	0.00336	0.00364	0.00466

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7R	0.00304	0.00333	0.00424
	-0.00001	0.00000	0.00002
	0.00000	0.00000	0.00000
	0.00218	0.00247	0.00339

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7R	0.00162	0.00168	0.00186
	0.00007	0.00008	0.00009
	-0.00006	-0.00006	-0.00005
	0.00250	0.00255	0.00273

Passive power(pJ) for SI falling :

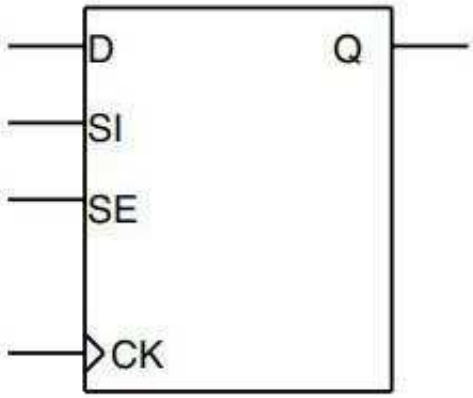
Cell Name	Power(pJ)		
	min	avg	max
SDFFTRQX3H7R	0.00295	0.00300	0.00321
	-0.00008	-0.00008	-0.00007
	0.00005	0.00006	0.00007
	0.00208	0.00213	0.00234

SDFFX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop
Q = rising (CK) ? (SE&SI| !SE&D) : pre_Q
QN = !Q



Truth Table

INPUT				OUTPUT	
CK	D	SE	SI	Q	QN
R	0	0	x	0	1
R	x	1	0	0	1
R	x	1	1	1	0
R	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFX0P5H7R	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CK	D	SE	SI	Q	QN
SDFFX0P5H7R	0.00086	0.00067	0.00189	0.00074	0.05959	0.05990

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFX0P5H7R	0.00000	1.17806	1.62564

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX0P5H7R	CK->Q (RR)	SE	0.10565	0.25810	0.61778
	CK->Q (RR)	!SE	0.10566	0.25812	0.61776

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX0P5H7R	CK->Q (RF)	SE	0.07484	0.20619	0.50033
	CK->Q (RF)	!SE	0.07486	0.20620	0.50033

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX0P5H7R	CK->QN (RR)	SE	0.10479	0.25340	0.61419
	CK->QN (RR)	!SE	0.10480	0.25342	0.61419

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX0P5H7R	CK->QN (RF)	SE	0.13075	0.25418	0.54177
	CK->QN (RF)	!SE	0.13075	0.25420	0.54156

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFX0P5H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7R	**hold**	**CK (R)**	-0.12526	-0.05863	-0.01599
	setup	**CK (R)**	0.02536	0.06931	0.14194

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7R	**hold**	**CK (R)**	-0.16833	-0.04970	0.04452
	setup	**CK (R)**	-0.00596	0.08130	0.20309

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7R	**hold**	**CK (R)**	-0.09369	-0.04030	0.01710
	setup	**CK (R)**	0.02100	0.08762	0.15124

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7R	**hold**	**CK (R)**	-0.14571	-0.03570	0.05448
	setup	**CK (R)**	0.04261	0.08725	0.18090

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7R	hold	CK (R)	-0.12694	-0.06152	-0.01663
	setup	CK (R)	0.02692	0.07203	0.14733

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX0P5H7R	hold	CK (R)	-0.18286	-0.06150	0.03341
	setup	CK (R)	0.00540	0.09334	0.21602

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX0P5H7R	CK	SE	0.00190	0.00198	0.00222
	CK	SE	0.00003	0.00005	0.00007
	CK	SE	-0.00005	-0.00003	-0.00002
	CK	SE	0.00230	0.00237	0.00262
	CK	!SE	0.00191	0.00199	0.00222
	CK	!SE	0.00003	0.00005	0.00007
	CK	!SE	-0.00005	-0.00003	-0.00003
	CK	!SE	0.00229	0.00237	0.00262

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX0P5H7R	CK	SE	0.00191	0.00200	0.00223
	CK	SE	-0.00004	-0.00003	-0.00001
	CK	SE	0.00003	0.00005	0.00006
	CK	SE	0.00214	0.00223	0.00246
	CK	!SE	0.00192	0.00200	0.00223
	CK	!SE	-0.00005	-0.00003	-0.00001
	CK	!SE	0.00003	0.00005	0.00006
	CK	!SE	0.00214	0.00223	0.00247

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX0P5H7R	CK	SE	0.00191	0.00200	0.00224
	CK	SE	-0.00005	-0.00003	-0.00001
	CK	SE	0.00003	0.00005	0.00007
	CK	SE	0.00213	0.00224	0.00247
	CK	!SE	0.00190	0.00200	0.00224
	CK	!SE	-0.00005	-0.00003	-0.00001
	CK	!SE	0.00002	0.00005	0.00006
	CK	!SE	0.00214	0.00223	0.00247

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX0P5H7R	CK	SE	0.00191	0.00198	0.00220
	CK	SE	0.00003	0.00005	0.00006
	CK	SE	-0.00005	-0.00003	-0.00001
	CK	SE	0.00229	0.00237	0.00259
	CK	!SE	0.00191	0.00198	0.00220
	CK	!SE	0.00003	0.00005	0.00005
	CK	!SE	-0.00004	-0.00003	-0.00002
	CK	!SE	0.00229	0.00237	0.00259

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7R	0.00176	0.00186	0.00226
	0.00000	0.00000	0.00001
	0.00001	0.00001	0.00002
	0.00235	0.00246	0.00286

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7R	0.00392	0.00408	0.00460
	-0.00001	-0.00000	0.00000
	0.00000	0.00001	0.00002
	0.00327	0.00342	0.00394

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7R	0.00159	0.00165	0.00187
	0.00016	0.00016	0.00017
	-0.00014	-0.00014	-0.00014
	0.00258	0.00264	0.00285

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7R	0.00232	0.00239	0.00263
	-0.00017	-0.00016	-0.00016
	0.00014	0.00014	0.00014
	0.00133	0.00139	0.00164

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7R	0.00235	0.00248	0.00294
	0.00000	0.00000	0.00000
	0.00009	0.00009	0.00011
	0.00310	0.00323	0.00368

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7R	0.00286	0.00314	0.00410
	0.00000	0.00000	0.00000
	0.00013	0.00014	0.00015
	0.00124	0.00151	0.00248

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7R	0.00127	0.00132	0.00152
	0.00016	0.00016	0.00016
	-0.00014	-0.00014	-0.00013
	0.00221	0.00227	0.00246

Passive power(pJ) for SI falling :

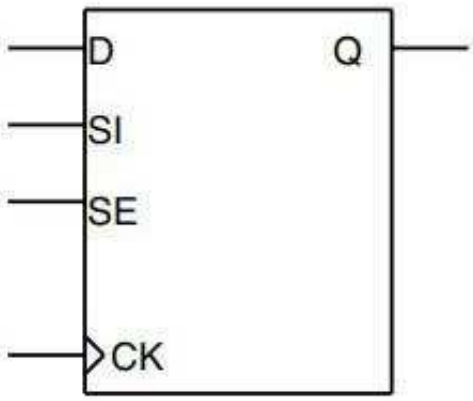
Cell Name	Power(pJ)		
	min	avg	max
SDFFX0P5H7R	0.00262	0.00267	0.00288
	-0.00016	-0.00016	-0.00016
	0.00013	0.00014	0.00014
	0.00167	0.00172	0.00194

SDFFX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop
Q = rising (CK) ? (SE&SI | !SE&D) : pre_Q
QN = !Q



Truth Table

INPUT				OUTPUT	
CK	D	SE	SI	Q	QN
R	0	0	x	0	1
R	x	1	0	0	1
R	x	1	1	1	0
R	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFX1H7R	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CK	D	SE	SI	Q	QN
SDFFX1H7R	0.00088	0.00067	0.00193	0.00075	0.07058	0.07085

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFX1H7R	0.00000	1.24121	1.69625

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX1H7R	CK->Q (RR)	SE	0.10358	0.25618	0.61682
	CK->Q (RR)	!SE	0.10359	0.25616	0.61585

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX1H7R	CK->Q (RF)	SE	0.07464	0.20701	0.50421
	CK->Q (RF)	!SE	0.07466	0.20702	0.50420

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX1H7R	CK->QN (RR)	SE	0.10418	0.25309	0.61432
	CK->QN (RR)	!SE	0.10420	0.25310	0.61431

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX1H7R	CK->QN (RF)	SE	0.12880	0.25365	0.54407
	CK->QN (RF)	!SE	0.12881	0.25366	0.54408

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFX1H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7R	**hold**	**CK (R)**	-0.12370	-0.05756	-0.01466
	setup	**CK (R)**	0.02321	0.06817	0.13968

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7R	**hold**	**CK (R)**	-0.16995	-0.04903	0.04353
	setup	**CK (R)**	-0.00543	0.08106	0.20032

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7R	**hold**	**CK (R)**	-0.09253	-0.03871	0.01935
	setup	**CK (R)**	0.02119	0.08666	0.15076

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7R	**hold**	**CK (R)**	-0.14502	-0.03485	0.05778
	setup	**CK (R)**	0.04012	0.08663	0.17871

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7R	hold	CK (R)	-0.12677	-0.06070	-0.01668
	setup	CK (R)	0.02472	0.07074	0.14823

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX1H7R	hold	CK (R)	-0.18443	-0.06100	0.03301
	setup	CK (R)	0.00788	0.09324	0.21510

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX1H7R	CK	SE	0.00198	0.00207	0.00231
	CK	SE	0.00003	0.00005	0.00007
	CK	SE	-0.00004	-0.00003	-0.00003
	CK	SE	0.00239	0.00247	0.00273
	CK	!SE	0.00197	0.00207	0.00230
	CK	!SE	0.00003	0.00005	0.00007
	CK	!SE	-0.00004	-0.00003	-0.00002
	CK	!SE	0.00239	0.00247	0.00270

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX1H7R	CK	SE	0.00201	0.00210	0.00233
	CK	SE	-0.00004	-0.00003	-0.00002
	CK	SE	0.00005	0.00005	0.00007
	CK	SE	0.00223	0.00233	0.00256
	CK	!SE	0.00201	0.00210	0.00233
	CK	!SE	-0.00003	-0.00003	-0.00001
	CK	!SE	0.00003	0.00005	0.00006
	CK	!SE	0.00224	0.00233	0.00256

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX1H7R	CK	SE	0.00202	0.00210	0.00233
	CK	SE	-0.00005	-0.00003	-0.00001
	CK	SE	0.00005	0.00005	0.00007
	CK	SE	0.00222	0.00233	0.00257
	CK	!SE	0.00200	0.00210	0.00234
	CK	!SE	-0.00005	-0.00003	-0.00000
	CK	!SE	0.00004	0.00005	0.00006
	CK	!SE	0.00225	0.00233	0.00257

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX1H7R	CK	SE	0.00198	0.00207	0.00229
	CK	SE	0.00003	0.00005	0.00007
	CK	SE	-0.00004	-0.00003	-0.00002
	CK	SE	0.00238	0.00247	0.00269
	CK	!SE	0.00198	0.00207	0.00229
	CK	!SE	0.00003	0.00005	0.00007
	CK	!SE	-0.00004	-0.00003	-0.00002
	CK	!SE	0.00238	0.00247	0.00269

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7R	0.00179	0.00190	0.00229
	0.00000	0.00000	0.00001
	0.00001	0.00001	0.00002
	0.00240	0.00251	0.00291

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7R	0.00397	0.00412	0.00464
	-0.00001	-0.00000	0.00000
	-0.00000	0.00001	0.00001
	0.00330	0.00345	0.00397

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7R	0.00166	0.00172	0.00194
	0.00016	0.00016	0.00016
	-0.00015	-0.00014	-0.00013
	0.00266	0.00271	0.00293

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7R	0.00231	0.00237	0.00261
	-0.00016	-0.00016	-0.00016
	0.00013	0.00014	0.00015
	0.00131	0.00137	0.00162

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7R	0.00234	0.00246	0.00290
	0.00000	0.00000	0.00000
	0.00008	0.00009	0.00010
	0.00310	0.00322	0.00367

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7R	0.00288	0.00314	0.00411
	0.00000	0.00000	0.00000
	0.00012	0.00013	0.00014
	0.00121	0.00148	0.00245

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7R	0.00134	0.00139	0.00159
	0.00015	0.00015	0.00015
	-0.00014	-0.00013	-0.00013
	0.00230	0.00235	0.00255

Passive power(pJ) for SI falling :

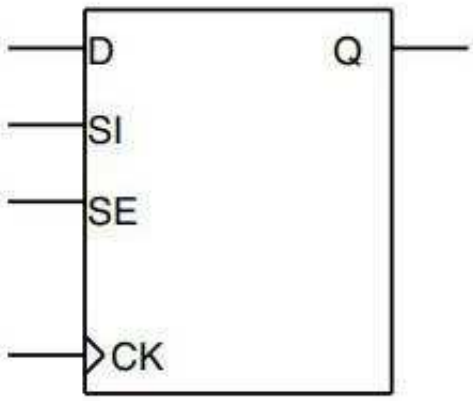
Cell Name	Power(pJ)		
	min	avg	max
SDFFX1H7R	0.00258	0.00265	0.00287
	-0.00015	-0.00015	-0.00015
	0.00013	0.00014	0.00015
	0.00163	0.00169	0.00191

SDFFX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop
Q = rising (CK) ? (SE&SI | !SE&D) : pre_Q
QN = !Q



Truth Table

INPUT				OUTPUT	
CK	D	SE	SI	Q	QN
R	0	0	x	0	1
R	x	1	0	0	1
R	x	1	1	1	0
R	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFX2H7R	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CK	D	SE	SI	Q	QN
SDFFX2H7R	0.00105	0.00066	0.00201	0.00076	0.08927	0.08965

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFX2H7R	0.00000	1.42115	1.88850

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX2H7R	CK->Q (RR)	SE	0.09892	0.25112	0.60853
	CK->Q (RR)	!SE	0.09893	0.25112	0.60848

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX2H7R	CK->Q (RF)	SE	0.07454	0.20614	0.49817
	CK->Q (RF)	!SE	0.07455	0.20613	0.49814

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX2H7R	CK->QN (RR)	SE	0.10456	0.25150	0.61002
	CK->QN (RR)	!SE	0.10458	0.25151	0.60979

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX2H7R	CK->QN (RF)	SE	0.12401	0.24563	0.52876
	CK->QN (RF)	!SE	0.12402	0.24565	0.52899

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFX2H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7R	**hold**	**CK (R)**	-0.12184	-0.06010	-0.02043
	setup	**CK (R)**	0.02994	0.07156	0.14509

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7R	**hold**	**CK (R)**	-0.17329	-0.05549	0.03217
	setup	**CK (R)**	0.00098	0.08593	0.20545

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7R	**hold**	**CK (R)**	-0.09337	-0.04195	0.01158
	setup	**CK (R)**	0.02636	0.08785	0.14776

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7R	**hold**	**CK (R)**	-0.13707	-0.04092	0.04519
	setup	**CK (R)**	0.04557	0.08716	0.18169

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7R	hold	CK (R)	-0.12675	-0.06269	-0.02247
	setup	CK (R)	0.03143	0.07427	0.14993

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX2H7R	hold	CK (R)	-0.18569	-0.06723	0.02232
	setup	CK (R)	0.01449	0.09736	0.22041

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX2H7R	CK	SE	0.00220	0.00233	0.00263
	CK	SE	0.00006	0.00006	0.00008
	CK	SE	-0.00003	-0.00003	-0.00002
	CK	SE	0.00265	0.00276	0.00308
	CK	!SE	0.00220	0.00233	0.00263
	CK	!SE	0.00002	0.00006	0.00008
	CK	!SE	-0.00003	-0.00003	-0.00003
	CK	!SE	0.00265	0.00276	0.00308

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX2H7R	CK	SE	0.00226	0.00238	0.00266
	CK	SE	-0.00003	-0.00003	-0.00000
	CK	SE	0.00004	0.00005	0.00007
	CK	SE	0.00250	0.00264	0.00293
	CK	!SE	0.00226	0.00238	0.00266
	CK	!SE	-0.00005	-0.00003	-0.00001
	CK	!SE	0.00004	0.00005	0.00007
	CK	!SE	0.00250	0.00264	0.00292

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX2H7R	CK	SE	0.00226	0.00238	0.00266
	CK	SE	-0.00005	-0.00003	0.00000
	CK	SE	0.00003	0.00005	0.00005
	CK	SE	0.00252	0.00264	0.00293
	CK	!SE	0.00226	0.00238	0.00266
	CK	!SE	-0.00005	-0.00003	-0.00001
	CK	!SE	0.00002	0.00005	0.00005
	CK	!SE	0.00252	0.00264	0.00293

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX2H7R	CK	SE	0.00222	0.00233	0.00261
	CK	SE	0.00006	0.00006	0.00006
	CK	SE	-0.00005	-0.00003	-0.00003
	CK	SE	0.00264	0.00275	0.00305
	CK	!SE	0.00222	0.00233	0.00261
	CK	!SE	0.00006	0.00006	0.00006
	CK	!SE	-0.00004	-0.00003	-0.00002
	CK	!SE	0.00264	0.00276	0.00305

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7R	0.00181	0.00194	0.00242
	0.00000	0.00000	0.00001
	0.00001	0.00001	0.00002
	0.00248	0.00261	0.00309

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7R	0.00406	0.00423	0.00484
	-0.00001	-0.00000	0.00000
	-0.00001	-0.00000	0.00001
	0.00334	0.00351	0.00411

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7R	0.00170	0.00176	0.00199
	0.00015	0.00016	0.00016
	-0.00014	-0.00013	-0.00013
	0.00269	0.00275	0.00297

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7R	0.00235	0.00242	0.00267
	-0.00016	-0.00016	-0.00015
	0.00013	0.00013	0.00014
	0.00137	0.00144	0.00169

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7R	0.00235	0.00251	0.00306
	0.00000	0.00000	0.00000
	0.00008	0.00009	0.00011
	0.00320	0.00335	0.00391

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7R	0.00295	0.00326	0.00434
	0.00000	0.00000	0.00000
	0.00012	0.00014	0.00015
	0.00126	0.00156	0.00264

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7R	0.00138	0.00144	0.00164
	0.00014	0.00015	0.00015
	-0.00013	-0.00013	-0.00012
	0.00233	0.00237	0.00258

Passive power(pJ) for SI falling :

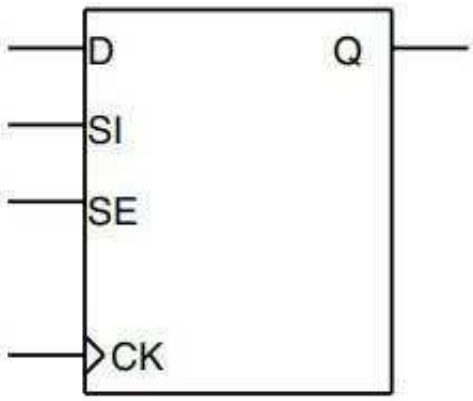
Cell Name	Power(pJ)		
	min	avg	max
SDFFX2H7R	0.00264	0.00270	0.00292
	-0.00015	-0.00015	-0.00014
	0.00012	0.00013	0.00013
	0.00170	0.00176	0.00199

SDFFX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

Scan D Flip-Flop
Q = rising (CK) ? (SE&SI | !SE&D) : pre_Q
QN = !Q



Truth Table

INPUT				OUTPUT	
CK	D	SE	SI	Q	QN
R	0	0	x	0	1
R	x	1	0	0	1
R	x	1	1	1	0
R	1	0	x	1	0
x	x	x	x	IQ	IQN

Footprint

Cell Name	Area
SDFFX3H7R	11.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)				Max Cap(pf)	
	CK	D	SE	SI	Q	QN
SDFFX3H7R	0.00105	0.00071	0.00195	0.00073	0.13389	0.13443

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
SDFFX3H7R	0.00000	1.63240	2.11977

Delay Information

Delay(ns) to Q rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX3H7R	CK->Q (RR)	SE	0.10187	0.25554	0.61412
	CK->Q (RR)	!SE	0.10185	0.25555	0.61413

Delay(ns) to Q falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX3H7R	CK->Q (RF)	SE	0.07931	0.21370	0.50866
	CK->Q (RF)	!SE	0.07932	0.21371	0.50863

Delay(ns) to QN rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX3H7R	CK->QN (RR)	SE	0.11806	0.26466	0.62435
	CK->QN (RR)	!SE	0.11807	0.26467	0.62433

Delay(ns) to QN falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
SDFFX3H7R	CK->QN (RF)	SE	0.13413	0.25666	0.54127
	CK->QN (RF)	!SE	0.13411	0.25670	0.54134

Constraint Information

Min Pulse Width (ns) for CK:

Cell Name	High	Low
SDFFX3H7R	0.9851	0.9851

Constraints(ns) for D rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7R	**hold**	**CK (R)**	-0.12509	-0.06055	-0.01827
	setup	**CK (R)**	0.02903	0.07142	0.14669

Constraints(ns) for D falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7R	**hold**	**CK (R)**	-0.16633	-0.05087	0.03599
	setup	**CK (R)**	-0.00237	0.08039	0.19780

Constraints(ns) for SE rising :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7R	**hold**	**CK (R)**	-0.10246	-0.04549	0.01022
	setup	**CK (R)**	0.02468	0.09062	0.15054

Constraints(ns) for SE falling :

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7R	**hold**	**CK (R)**	-0.13759	-0.03626	0.04961
	setup	**CK (R)**	0.04331	0.08545	0.17726

Constraints(ns) for SI rising (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7R	hold	CK (R)	-0.13533	-0.06632	-0.02333
	setup	CK (R)	0.03409	0.07822	0.15654

Constraints(ns) for SI falling (conditional):

Cell Name	Timing Check	Ref Pin(trans)	Reference Slew Rate(ns)		
			min	avg	max
SDFFX3H7R	hold	CK (R)	-0.19111	-0.06898	0.02190
	setup	CK (R)	0.01305	0.09923	0.22249

Power Information

Internal switching power(pJ) to Q rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX3H7R	CK	SE	0.00261	0.00275	0.00305
	CK	SE	0.00001	0.00006	0.00010
	CK	SE	-0.00003	-0.00003	-0.00001
	CK	SE	0.00306	0.00318	0.00349
	CK	!SE	0.00262	0.00275	0.00304
	CK	!SE	0.00003	0.00006	0.00010
	CK	!SE	-0.00005	-0.00003	0.00001
	CK	!SE	0.00306	0.00318	0.00348

Internal switching power(pJ) to Q falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX3H7R	CK	SE	0.00267	0.00279	0.00308
	CK	SE	-0.00003	-0.00003	-0.00001
	CK	SE	0.00003	0.00005	0.00007
	CK	SE	0.00292	0.00304	0.00334
	CK	!SE	0.00267	0.00279	0.00308
	CK	!SE	-0.00003	-0.00003	-0.00003
	CK	!SE	0.00004	0.00005	0.00008
	CK	!SE	0.00291	0.00304	0.00334

Internal switching power(pJ) to QN rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX3H7R	CK	SE	0.00267	0.00279	0.00307
	CK	SE	-0.00006	-0.00003	-0.00002
	CK	SE	0.00005	0.00006	0.00009
	CK	SE	0.00291	0.00304	0.00333
	CK	!SE	0.00267	0.00279	0.00309
	CK	!SE	-0.00006	-0.00003	-0.00003
	CK	!SE	0.00002	0.00005	0.00009
	CK	!SE	0.00293	0.00304	0.00336

Internal switching power(pJ) to QN falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
SDFFX3H7R	CK	SE	0.00263	0.00275	0.00304
	CK	SE	0.00006	0.00006	0.00007
	CK	SE	-0.00004	-0.00003	-0.00003
	CK	SE	0.00306	0.00318	0.00348
	CK	!SE	0.00263	0.00275	0.00305
	CK	!SE	0.00006	0.00006	0.00007
	CK	!SE	-0.00004	-0.00003	-0.00002
	CK	!SE	0.00306	0.00318	0.00349

Passive power(pJ) for CK rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7R	0.00185	0.00198	0.00246
	0.00000	0.00000	0.00001
	0.00000	0.00002	0.00003
	0.00251	0.00264	0.00312

Passive power(pJ) for CK falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7R	0.00427	0.00445	0.00506
	-0.00001	-0.00000	0.00000
	-0.00001	0.00000	0.00001
	0.00355	0.00372	0.00432

Passive power(pJ) for D rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7R	0.00174	0.00180	0.00204
	0.00017	0.00017	0.00018
	-0.00014	-0.00014	-0.00014
	0.00279	0.00285	0.00309

Passive power(pJ) for D falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7R	0.00255	0.00262	0.00289
	-0.00018	-0.00017	-0.00017
	0.00014	0.00014	0.00015
	0.00149	0.00156	0.00184

Passive power(pJ) for SE rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7R	0.00253	0.00269	0.00324
	0.00000	0.00000	0.00000
	0.00006	0.00008	0.00009
	0.00332	0.00347	0.00402

Passive power(pJ) for SE falling :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7R	0.00308	0.00341	0.00451
	0.00000	0.00000	0.00000
	0.00014	0.00014	0.00016
	0.00140	0.00171	0.00282

Passive power(pJ) for SI rising :

Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7R	0.00142	0.00147	0.00167
	0.00015	0.00015	0.00016
	-0.00014	-0.00013	-0.00013
	0.00237	0.00242	0.00263

Passive power(pJ) for SI falling :

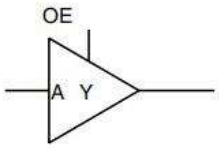
Cell Name	Power(pJ)		
	min	avg	max
SDFFX3H7R	0.00279	0.00286	0.00308
	-0.00016	-0.00015	-0.00015
	0.00013	0.00013	0.00014
	0.00185	0.00191	0.00214

TBUFX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX0P5H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX0P5H7R	0.00082	0.00118	0.02254

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX0P5H7R	0.00000	0.22389	0.28503

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX0P5H7R	A->Y (RR)	0.04647	0.17857	0.50474
	OE->Y (FR)	0.01557	0.07087	0.23021
	OE->Y (RR)	0.03333	0.16166	0.48202

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX0P5H7R	A->Y (FF)	0.04129	0.14603	0.40301
	OE->Y (FF)	0.01647	0.07164	0.23020
	OE->Y (RF)	-0.00017	0.12338	0.50902

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX0P5H7R	A	0.00065	0.00077	0.00117
	A	-0.00004	-0.00004	-0.00004
	A	0.00004	0.00004	0.00004
	A	0.00102	0.00114	0.00153
	OE	0.00037	0.00050	0.00094
	OE	-0.00000	-0.00000	0.00000
	OE	0.00004	0.00005	0.00005
	OE	0.00094	0.00106	0.00150

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX0P5H7R	A	0.00082	0.00094	0.00138
	A	0.00004	0.00004	0.00004
	A	-0.00004	-0.00004	-0.00004
	A	0.00045	0.00057	0.00101
	OE	-0.00004	0.00009	0.00055
	OE	0.00009	0.00009	0.00009
	OE	-0.00005	-0.00003	-0.00000
	OE	0.00090	0.00105	0.00152

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P5H7R	!OE	0.00001	0.00012	0.00051
	!OE	0.00003	0.00004	0.00004
	!OE	-0.00002	-0.00002	-0.00002
	!OE	0.00068	0.00079	0.00118

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P5H7R	!OE	0.00070	0.00083	0.00126
	!OE	-0.00004	-0.00004	-0.00003
	!OE	0.00002	0.00002	0.00002
	!OE	0.00003	0.00016	0.00059

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P5H7R	(A * Y)	-0.00006	0.00007	0.00050
	(A * Y)	0.00003	0.00003	0.00003
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00068	0.00081	0.00124
	(!A * !Y)	-0.00009	0.00004	0.00048
	(!A * !Y)	0.00004	0.00004	0.00004
	(!A * !Y)	-0.00001	-0.00001	-0.00000
	(!A * !Y)	0.00072	0.00085	0.00129

Passive power(pJ) for OE falling (conditional):

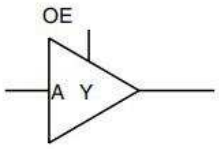
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P5H7R	(A * Y)	0.00060	0.00073	0.00118
	(A * Y)	-0.00003	-0.00003	-0.00002
	(A * Y)	-0.00000	-0.00000	0.00000
	(A * Y)	-0.00015	-0.00002	0.00044
	(!A * !Y)	0.00057	0.00071	0.00120
	(!A * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !Y)	0.00001	0.00001	0.00001
	(!A * !Y)	-0.00025	-0.00010	0.00040

TBUFX0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX0P7H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX0P7H7R	0.00083	0.00119	0.02552

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX0P7H7R	0.00000	0.22668	0.28581

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX0P7H7R	A->Y (RR)	0.04470	0.17798	0.50652
	OE->Y (FR)	0.01579	0.07104	0.23022
	OE->Y (RR)	0.03164	0.16078	0.48283

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX0P7H7R	A->Y (FF)	0.04032	0.14553	0.40336
	OE->Y (FF)	0.01680	0.07190	0.23021
	OE->Y (RF)	-0.00660	0.12119	0.50775

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX0P7H7R	A	0.00071	0.00082	0.00122
	A	-0.00005	-0.00005	-0.00005
	A	0.00005	0.00005	0.00005
	A	0.00105	0.00117	0.00156
	OE	0.00040	0.00052	0.00096
	OE	-0.00000	-0.00000	-0.00000
	OE	0.00005	0.00005	0.00006
	OE	0.00095	0.00108	0.00151

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX0P7H7R	A	0.00084	0.00097	0.00139
	A	0.00005	0.00005	0.00005
	A	-0.00005	-0.00005	-0.00005
	A	0.00049	0.00062	0.00106
	OE	-0.00004	0.00009	0.00055
	OE	0.00010	0.00010	0.00010
	OE	-0.00006	-0.00003	-0.00003
	OE	0.00094	0.00107	0.00154

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P7H7R	!OE	0.00002	0.00013	0.00052
	!OE	0.00004	0.00004	0.00004
	!OE	-0.00002	-0.00002	-0.00002
	!OE	0.00070	0.00081	0.00120

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P7H7R	!OE	0.00072	0.00084	0.00127
	!OE	-0.00004	-0.00004	-0.00004
	!OE	0.00002	0.00002	0.00002
	!OE	0.00004	0.00017	0.00059

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P7H7R	(A * Y)	-0.00005	0.00008	0.00051
	(A * Y)	0.00003	0.00003	0.00003
	(A * Y)	0.00000	0.00000	0.00000
	(A * Y)	0.00070	0.00082	0.00125
	(!A * !Y)	-0.00009	0.00004	0.00048
	(!A * !Y)	0.00004	0.00004	0.00004
	(!A * !Y)	-0.00001	-0.00001	-0.00001
	(!A * !Y)	0.00073	0.00086	0.00130

Passive power(pJ) for OE falling (conditional):

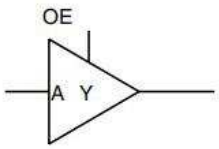
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX0P7H7R	(A * Y)	0.00061	0.00074	0.00118
	(A * Y)	-0.00003	-0.00003	-0.00003
	(A * Y)	-0.00000	-0.00000	-0.00000
	(A * Y)	-0.00015	-0.00002	0.00043
	(!A * !Y)	0.00058	0.00072	0.00121
	(!A * !Y)	-0.00004	-0.00004	-0.00004
	(!A * !Y)	0.00001	0.00001	0.00001
	(!A * !Y)	-0.00025	-0.00011	0.00039

TBUFX12H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX12H7R	9.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX12H7R	0.00218	0.00637	0.48234

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX12H7R	0.00000	1.77589	2.63816

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX12H7R	A->Y (RR)	0.04660	0.20374	0.57680
	OE->Y (FR)	0.03139	0.06337	0.11903
	OE->Y (RR)	0.02871	0.18105	0.55560

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX12H7R	A->Y (FF)	0.05645	0.19356	0.50906
	OE->Y (FF)	0.01318	0.03266	0.05787
	OE->Y (RF)	0.04799	0.16683	0.42257

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX12H7R	A	0.00326	0.00382	0.00482
	A	0.00030	0.00031	0.00032
	A	-0.00026	-0.00026	-0.00021
	A	0.00627	0.00684	0.00784
	OE	0.00216	0.00317	0.00690
	OE	0.00028	0.00029	0.00030
	OE	0.00003	0.00007	0.00011
	OE	0.00710	0.00808	0.01159

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX12H7R	A	0.00821	0.00881	0.01014
	A	-0.00032	-0.00031	-0.00030
	A	0.00025	0.00026	0.00026
	A	0.00520	0.00577	0.00711
	OE	0.00523	0.00601	0.00861
	OE	0.00020	0.00025	0.00027
	OE	0.00009	0.00012	0.00013
	OE	0.00872	0.00951	0.01249

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX12H7R	!OE	-0.00048	-0.00048	-0.00047
	!OE	-0.00001	-0.00001	-0.00001
	!OE	0.00001	0.00002	0.00002
	!OE	0.00063	0.00064	0.00064

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX12H7R	!OE	0.00048	0.00048	0.00048
	!OE	0.00001	0.00001	0.00002
	!OE	-0.00002	-0.00001	-0.00001
	!OE	-0.00064	-0.00064	-0.00063

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX12H7R	(A * Y)	-0.00005	0.00094	0.00446
	(A * Y)	0.00059	0.00063	0.00064
	(A * Y)	-0.00019	-0.00018	-0.00016
	(A * Y)	0.00544	0.00644	0.00997
	(!A * !Y)	0.00384	0.00462	0.00721
	(!A * !Y)	-0.00007	-0.00006	-0.00005
	(!A * !Y)	0.00036	0.00040	0.00046
	(!A * !Y)	0.00671	0.00752	0.01013

Passive power(pJ) for OE falling (conditional):

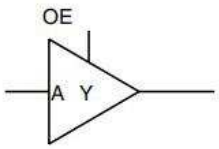
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX12H7R	(A * Y)	0.00711	0.00816	0.01183
	(A * Y)	-0.00064	-0.00063	-0.00059
	(A * Y)	0.00018	0.00019	0.00020
	(A * Y)	0.00160	0.00262	0.00631
	(!A * !Y)	0.00562	0.00616	0.00812
	(!A * !Y)	0.00005	0.00007	0.00008
	(!A * !Y)	-0.00044	-0.00039	-0.00036
	(!A * !Y)	0.00275	0.00326	0.00521

TBUFX16H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX16H7R	13.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX16H7R	0.00308	0.00887	0.63598

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX16H7R	0.00000	2.50611	3.64786

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX16H7R	A->Y (RR)	0.04410	0.19936	0.56859
	OE->Y (FR)	0.03036	0.06196	0.11666
	OE->Y (RR)	0.02676	0.17633	0.54572

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX16H7R	A->Y (FF)	0.05363	0.18805	0.49764
	OE->Y (FF)	0.01334	0.03298	0.05927
	OE->Y (RF)	0.04593	0.16234	0.41336

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX16H7R	A	0.00433	0.00508	0.00652
	A	0.00045	0.00046	0.00047
	A	-0.00039	-0.00038	-0.00026
	A	0.00868	0.00946	0.01091
	OE	0.00285	0.00426	0.00963
	OE	0.00041	0.00043	0.00043
	OE	-0.00002	0.00007	0.00009
	OE	0.00976	0.01118	0.01629

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX16H7R	A	0.01130	0.01213	0.01399
	A	-0.00046	-0.00045	-0.00042
	A	0.00038	0.00038	0.00040
	A	0.00694	0.00775	0.00962
	OE	0.00718	0.00833	0.01213
	OE	0.00030	0.00033	0.00036
	OE	0.00016	0.00017	0.00026
	OE	0.01193	0.01309	0.01707

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX16H7R	!OE	-0.00070	-0.00070	-0.00069
	!OE	-0.00002	-0.00002	-0.00001
	!OE	0.00001	0.00002	0.00002
	!OE	0.00088	0.00089	0.00089

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX16H7R	!OE	0.00070	0.00070	0.00070
	!OE	0.00001	0.00002	0.00002
	!OE	-0.00002	-0.00002	-0.00001
	!OE	-0.00089	-0.00088	-0.00088

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX16H7R	(A * Y)	-0.00017	0.00127	0.00639
	(A * Y)	0.00085	0.00090	0.00092
	(A * Y)	-0.00027	-0.00026	-0.00025
	(A * Y)	0.00753	0.00898	0.01411
	(!A * !Y)	0.00536	0.00649	0.01028
	(!A * !Y)	-0.00008	-0.00008	-0.00003
	(!A * !Y)	0.00054	0.00058	0.00065
	(!A * !Y)	0.00930	0.01046	0.01430

Passive power(pJ) for OE falling (conditional):

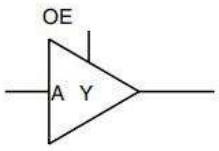
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX16H7R	(A * Y)	0.00963	0.01116	0.01647
	(A * Y)	-0.00092	-0.00089	-0.00085
	(A * Y)	0.00026	0.00027	0.00029
	(A * Y)	0.00193	0.00341	0.00875
	(!A * !Y)	0.00767	0.00848	0.01135
	(!A * !Y)	0.00003	0.00009	0.00015
	(!A * !Y)	-0.00057	-0.00055	-0.00054
	(!A * !Y)	0.00373	0.00450	0.00735

TBUFX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX1H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX1H7R	0.00084	0.00122	0.03029

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX1H7R	0.00000	0.23082	0.28697

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX1H7R	A->Y (RR)	0.04282	0.17743	0.50872
	OE->Y (FR)	0.01621	0.07136	0.23022
	OE->Y (RR)	0.03009	0.16016	0.48409

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX1H7R	A->Y (FF)	0.03974	0.14703	0.40969
	OE->Y (FF)	0.01741	0.07237	0.23021
	OE->Y (RF)	-0.01337	0.12057	0.51125

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX1H7R	A	0.00080	0.00092	0.00131
	A	-0.00007	-0.00007	-0.00007
	A	0.00005	0.00006	0.00006
	A	0.00112	0.00123	0.00161
	OE	0.00045	0.00057	0.00100
	OE	-0.00001	-0.00001	-0.00001
	OE	0.00006	0.00007	0.00007
	OE	0.00099	0.00111	0.00154

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX1H7R	A	0.00087	0.00100	0.00142
	A	0.00007	0.00007	0.00007
	A	-0.00006	-0.00006	-0.00005
	A	0.00056	0.00069	0.00113
	OE	-0.00003	0.00010	0.00056
	OE	0.00012	0.00012	0.00012
	OE	-0.00005	-0.00004	0.00001
	OE	0.00096	0.00112	0.00159

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1H7R	!OE	0.00004	0.00014	0.00053
	!OE	0.00004	0.00004	0.00005
	!OE	-0.00003	-0.00003	-0.00002
	!OE	0.00073	0.00084	0.00122

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1H7R	!OE	0.00074	0.00086	0.00128
	!OE	-0.00005	-0.00004	-0.00004
	!OE	0.00002	0.00003	0.00003
	!OE	0.00005	0.00017	0.00059

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1H7R	(A * Y)	-0.00003	0.00009	0.00052
	(A * Y)	0.00003	0.00003	0.00004
	(A * Y)	0.00001	0.00001	0.00001
	(A * Y)	0.00072	0.00084	0.00127
	(!A * !Y)	-0.00009	0.00004	0.00047
	(!A * !Y)	0.00005	0.00005	0.00005
	(!A * !Y)	-0.00001	-0.00001	-0.00000
	(!A * !Y)	0.00076	0.00088	0.00132

Passive power(pJ) for OE falling (conditional):

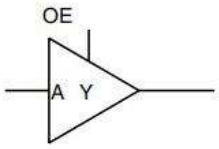
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1H7R	(A * Y)	0.00063	0.00075	0.00118
	(A * Y)	-0.00004	-0.00003	-0.00003
	(A * Y)	-0.00001	-0.00001	-0.00000
	(A * Y)	-0.00014	-0.00002	0.00043
	(!A * !Y)	0.00059	0.00074	0.00122
	(!A * !Y)	-0.00005	-0.00005	-0.00004
	(!A * !Y)	0.00001	0.00001	0.00002
	(!A * !Y)	-0.00026	-0.00011	0.00038

TBUFX1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX1P4H7R	2.24000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX1P4H7R	0.00082	0.00125	0.03456

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX1P4H7R	0.00000	0.23484	0.28809

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX1P4H7R	A->Y (RR)	0.04176	0.17760	0.51147
	OE->Y (FR)	0.01650	0.07156	0.23023
	OE->Y (RR)	0.02867	0.15949	0.48529

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX1P4H7R	A->Y (FF)	0.03935	0.14715	0.41039
	OE->Y (FF)	0.01788	0.07272	0.23021
	OE->Y (RF)	-0.01908	0.11880	0.50927

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX1P4H7R	A	0.00089	0.00100	0.00140
	A	-0.00009	-0.00008	-0.00008
	A	0.00007	0.00007	0.00007
	A	0.00115	0.00126	0.00164
	OE	0.00048	0.00060	0.00104
	OE	-0.00001	-0.00001	-0.00001
	OE	0.00008	0.00008	0.00011
	OE	0.00101	0.00113	0.00156

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX1P4H7R	A	0.00091	0.00103	0.00145
	A	0.00008	0.00008	0.00009
	A	-0.00007	-0.00007	-0.00007
	A	0.00065	0.00077	0.00119
	OE	-0.00003	0.00010	0.00057
	OE	0.00013	0.00013	0.00013
	OE	-0.00009	-0.00004	-0.00003
	OE	0.00103	0.00116	0.00164

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1P4H7R	!OE	0.00006	0.00016	0.00054
	!OE	0.00004	0.00005	0.00005
	!OE	-0.00003	-0.00003	-0.00003
	!OE	0.00075	0.00085	0.00122

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1P4H7R	!OE	0.00076	0.00088	0.00129
	!OE	-0.00005	-0.00005	-0.00004
	!OE	0.00003	0.00003	0.00003
	!OE	0.00008	0.00019	0.00061

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1P4H7R	(A * Y)	-0.00002	0.00010	0.00052
	(A * Y)	0.00003	0.00003	0.00004
	(A * Y)	0.00001	0.00001	0.00001
	(A * Y)	0.00074	0.00086	0.00128
	(!A * !Y)	-0.00008	0.00004	0.00047
	(!A * !Y)	0.00005	0.00005	0.00005
	(!A * !Y)	-0.00001	-0.00001	-0.00000
	(!A * !Y)	0.00078	0.00090	0.00134

Passive power(pJ) for OE falling (conditional):

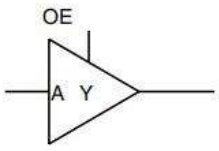
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX1P4H7R	(A * Y)	0.00064	0.00076	0.00119
	(A * Y)	-0.00004	-0.00003	-0.00003
	(A * Y)	-0.00001	-0.00001	-0.00001
	(A * Y)	-0.00014	-0.00001	0.00043
	(!A * !Y)	0.00060	0.00075	0.00122
	(!A * !Y)	-0.00005	-0.00005	-0.00005
	(!A * !Y)	0.00001	0.00001	0.00002
	(!A * !Y)	-0.00027	-0.00012	0.00037

TBUFX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX2H7R	3.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX2H7R	0.00078	0.00140	0.04559

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX2H7R	0.00000	0.24747	0.28972

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX2H7R	A->Y (RR)	0.04683	0.18948	0.53707
	OE->Y (FR)	0.01881	0.07335	0.23026
	OE->Y (RR)	0.02960	0.16484	0.49955

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX2H7R	A->Y (FF)	0.04461	0.15845	0.43373
	OE->Y (FF)	0.02073	0.07490	0.23024
	OE->Y (RF)	-0.04159	0.11547	0.51196

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX2H7R	A	0.00146	0.00157	0.00192
	A	-0.00011	-0.00010	-0.00010
	A	0.00009	0.00009	0.00012
	A	0.00157	0.00167	0.00202
	OE	0.00071	0.00082	0.00126
	OE	-0.00003	-0.00002	-0.00002
	OE	0.00008	0.00011	0.00011
	OE	0.00124	0.00136	0.00176

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX2H7R	A	0.00114	0.00126	0.00164
	A	0.00010	0.00010	0.00011
	A	-0.00010	-0.00009	-0.00009
	A	0.00104	0.00116	0.00157
	OE	0.00001	0.00013	0.00060
	OE	0.00016	0.00016	0.00016
	OE	-0.00009	-0.00005	-0.00004
	OE	0.00120	0.00133	0.00181

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX2H7R	!OE	0.00013	0.00022	0.00057
	!OE	0.00005	0.00005	0.00005
	!OE	-0.00003	-0.00003	-0.00003
	!OE	0.00079	0.00088	0.00122

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX2H7R	!OE	0.00090	0.00100	0.00138
	!OE	-0.00005	-0.00005	-0.00005
	!OE	0.00003	0.00003	0.00003
	!OE	0.00025	0.00036	0.00074

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX2H7R	(A * Y)	0.00009	0.00020	0.00059
	(A * Y)	0.00003	0.00003	0.00004
	(A * Y)	0.00001	0.00001	0.00002
	(A * Y)	0.00093	0.00104	0.00144
	(!A * !Y)	-0.00006	0.00006	0.00048
	(!A * !Y)	0.00005	0.00006	0.00006
	(!A * !Y)	-0.00002	-0.00001	-0.00001
	(!A * !Y)	0.00093	0.00105	0.00147

Passive power(pJ) for OE falling (conditional):

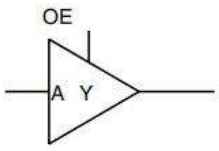
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX2H7R	(A * Y)	0.00067	0.00078	0.00118
	(A * Y)	-0.00004	-0.00003	-0.00003
	(A * Y)	-0.00001	-0.00001	-0.00001
	(A * Y)	-0.00020	-0.00008	0.00034
	(!A * !Y)	0.00067	0.00081	0.00129
	(!A * !Y)	-0.00006	-0.00006	-0.00005
	(!A * !Y)	0.00001	0.00002	0.00002
	(!A * !Y)	-0.00033	-0.00019	0.00032

TBUFX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX3H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX3H7R	0.00075	0.00209	0.12071

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX3H7R	0.00000	0.54702	0.75776

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX3H7R	A->Y (RR)	0.04689	0.19992	0.56739
	OE->Y (FR)	0.03368	0.06665	0.12473
	OE->Y (RR)	0.03120	0.18013	0.54655

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX3H7R	A->Y (FF)	0.05487	0.18645	0.49472
	OE->Y (FF)	0.01533	0.03879	0.07320
	OE->Y (RF)	0.04904	0.16423	0.41867

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX3H7R	A	0.00092	0.00107	0.00143
	A	0.00011	0.00011	0.00011
	A	-0.00009	-0.00009	-0.00008
	A	0.00188	0.00204	0.00239
	OE	0.00062	0.00094	0.00209
	OE	0.00010	0.00010	0.00011
	OE	-0.00002	0.00000	0.00001
	OE	0.00223	0.00254	0.00367

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX3H7R	A	0.00259	0.00278	0.00318
	A	-0.00011	-0.00011	-0.00010
	A	0.00009	0.00009	0.00009
	A	0.00163	0.00181	0.00222
	OE	0.00163	0.00189	0.00278
	OE	0.00006	0.00006	0.00007
	OE	0.00004	0.00004	0.00004
	OE	0.00276	0.00302	0.00392

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX3H7R	!OE	-0.00017	-0.00017	-0.00017
	!OE	-0.00000	-0.00000	-0.00000
	!OE	0.00000	0.00000	0.00000
	!OE	0.00020	0.00020	0.00020

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX3H7R	!OE	0.00017	0.00017	0.00017
	!OE	0.00000	0.00000	0.00000
	!OE	-0.00000	-0.00000	-0.00000
	!OE	-0.00020	-0.00020	-0.00020

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX3H7R	(A * Y)	-0.00003	0.00028	0.00141
	(A * Y)	0.00018	0.00019	0.00021
	(A * Y)	-0.00006	-0.00006	-0.00006
	(A * Y)	0.00172	0.00203	0.00316
	(!A * !Y)	0.00126	0.00152	0.00240
	(!A * !Y)	-0.00002	-0.00001	-0.00000
	(!A * !Y)	0.00010	0.00011	0.00012
	(!A * !Y)	0.00223	0.00250	0.00338

Passive power(pJ) for OE falling (conditional):

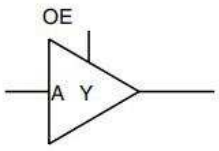
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX3H7R	(A * Y)	0.00251	0.00283	0.00401
	(A * Y)	-0.00020	-0.00019	-0.00018
	(A * Y)	0.00006	0.00006	0.00007
	(A * Y)	0.00075	0.00107	0.00226
	(!A * !Y)	0.00198	0.00215	0.00278
	(!A * !Y)	0.00000	0.00001	0.00002
	(!A * !Y)	-0.00012	-0.00011	-0.00010
	(!A * !Y)	0.00101	0.00118	0.00180

TBUFX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX4H7R	4.76000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX4H7R	0.00081	0.00257	0.15512

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX4H7R	0.00000	0.71315	0.97327

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX4H7R	A->Y (RR)	0.04726	0.20216	0.57317
	OE->Y (FR)	0.03532	0.06980	0.13119
	OE->Y (RR)	0.02904	0.17474	0.53348

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX4H7R	A->Y (FF)	0.05710	0.18879	0.49329
	OE->Y (FF)	0.01496	0.03900	0.07612
	OE->Y (RF)	0.05156	0.16658	0.41525

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX4H7R	A	0.00116	0.00135	0.00174
	A	0.00012	0.00013	0.00013
	A	-0.00012	-0.00011	-0.00010
	A	0.00234	0.00253	0.00291
	OE	0.00078	0.00119	0.00271
	OE	0.00012	0.00012	0.00012
	OE	-0.00002	0.00001	0.00002
	OE	0.00276	0.00316	0.00461

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX4H7R	A	0.00322	0.00344	0.00393
	A	-0.00013	-0.00013	-0.00011
	A	0.00011	0.00011	0.00012
	A	0.00206	0.00226	0.00275
	OE	0.00217	0.00252	0.00366
	OE	0.00007	0.00008	0.00009
	OE	0.00005	0.00005	0.00006
	OE	0.00352	0.00386	0.00514

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX4H7R	!OE	-0.00019	-0.00019	-0.00019
	!OE	-0.00000	-0.00001	-0.00000
	!OE	0.00000	0.00000	0.00001
	!OE	0.00020	0.00020	0.00021

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX4H7R	!OE	0.00019	0.00019	0.00020
	!OE	0.00000	0.00001	0.00001
	!OE	-0.00001	-0.00000	-0.00000
	!OE	-0.00020	-0.00020	-0.00020

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX4H7R	(A * Y)	-0.00005	0.00035	0.00181
	(A * Y)	0.00022	0.00024	0.00026
	(A * Y)	-0.00007	-0.00007	-0.00007
	(A * Y)	0.00211	0.00252	0.00398
	(!A * !Y)	0.00171	0.00206	0.00320
	(!A * !Y)	-0.00002	-0.00002	-0.00001
	(!A * !Y)	0.00014	0.00015	0.00017
	(!A * !Y)	0.00286	0.00321	0.00435

Passive power(pJ) for OE falling (conditional):

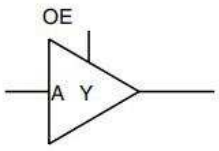
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX4H7R	(A * Y)	0.00310	0.00352	0.00505
	(A * Y)	-0.00024	-0.00023	-0.00022
	(A * Y)	0.00007	0.00008	0.00008
	(A * Y)	0.00092	0.00135	0.00288
	(!A * !Y)	0.00251	0.00271	0.00345
	(!A * !Y)	0.00001	0.00002	0.00003
	(!A * !Y)	-0.00016	-0.00015	-0.00014
	(!A * !Y)	0.00137	0.00156	0.00230

TBUFX6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX6H7R	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX6H7R	0.00136	0.00388	0.24130

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX6H7R	0.00000	0.90731	1.33712

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX6H7R	A->Y (RR)	0.04979	0.20729	0.58130
	OE->Y (FR)	0.03627	0.07008	0.13046
	OE->Y (RR)	0.03290	0.18748	0.56580

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX6H7R	A->Y (FF)	0.05869	0.19561	0.51154
	OE->Y (FF)	0.01427	0.03504	0.06267
	OE->Y (RF)	0.05234	0.17326	0.43354

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX6H7R	A	0.00152	0.00178	0.00240
	A	0.00014	0.00015	0.00015
	A	-0.00012	-0.00012	-0.00010
	A	0.00326	0.00353	0.00404
	OE	0.00094	0.00147	0.00333
	OE	0.00014	0.00014	0.00015
	OE	0.00001	0.00004	0.00006
	OE	0.00392	0.00443	0.00622

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX6H7R	A	0.00442	0.00471	0.00542
	A	-0.00015	-0.00015	-0.00013
	A	0.00011	0.00012	0.00012
	A	0.00269	0.00296	0.00368
	OE	0.00270	0.00310	0.00444
	OE	0.00011	0.00013	0.00015
	OE	0.00005	0.00005	0.00006
	OE	0.00484	0.00523	0.00658

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX6H7R	!OE	-0.00028	-0.00028	-0.00028
	!OE	-0.00001	-0.00001	-0.00001
	!OE	0.00000	0.00001	0.00001
	!OE	0.00040	0.00040	0.00041

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX6H7R	!OE	0.00028	0.00028	0.00029
	!OE	0.00001	0.00001	0.00001
	!OE	-0.00001	-0.00001	0.00000
	!OE	-0.00040	-0.00040	-0.00040

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX6H7R	(A * Y)	-0.00009	0.00042	0.00222
	(A * Y)	0.00029	0.00032	0.00034
	(A * Y)	-0.00009	-0.00009	-0.00008
	(A * Y)	0.00317	0.00366	0.00547
	(!A * !Y)	0.00211	0.00251	0.00385
	(!A * !Y)	-0.00003	-0.00003	-0.00002
	(!A * !Y)	0.00017	0.00019	0.00022
	(!A * !Y)	0.00395	0.00435	0.00570

Passive power(pJ) for OE falling (conditional):

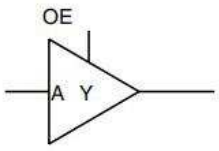
Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX6H7R	(A * Y)	0.00431	0.00485	0.00681
	(A * Y)	-0.00032	-0.00031	-0.00029
	(A * Y)	0.00009	0.00009	0.00010
	(A * Y)	0.00105	0.00159	0.00355
	(!A * !Y)	0.00341	0.00367	0.00468
	(!A * !Y)	0.00002	0.00003	0.00007
	(!A * !Y)	-0.00020	-0.00019	-0.00017
	(!A * !Y)	0.00158	0.00184	0.00282

TBUFX8H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The TBUF cell provides the logical buffer of a single input (A) with an active-high output enable (OE). The output (Y) is 3-stated when the enable is low. When the enable is high, the output is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	0
1	1	1

Footprint

Cell Name	Area
TBUFX8H7R	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TBUFX8H7R	0.00159	0.00475	0.31946

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TBUFX8H7R	0.00000	1.29487	1.85168

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX8H7R	A->Y (RR)	0.04148	0.19406	0.55870
	OE->Y (FR)	0.03010	0.06152	0.11608
	OE->Y (RR)	0.02615	0.17491	0.54417

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TBUFX8H7R	A->Y (FF)	0.05009	0.18293	0.49196
	OE->Y (FF)	0.01308	0.03198	0.05682
	OE->Y (RF)	0.04324	0.15784	0.40867

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX8H7R	A	0.00196	0.00233	0.00311
	A	0.00024	0.00025	0.00025
	A	-0.00020	-0.00020	-0.00019
	A	0.00418	0.00456	0.00536
	OE	0.00123	0.00198	0.00493
	OE	0.00022	0.00023	0.00024
	OE	0.00000	0.00003	0.00008
	OE	0.00491	0.00567	0.00839

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TBUFX8H7R	A	0.00554	0.00593	0.00694
	A	-0.00025	-0.00025	-0.00023
	A	0.00019	0.00020	0.00020
	A	0.00331	0.00370	0.00471
	OE	0.00337	0.00396	0.00594
	OE	0.00007	0.00016	0.00018
	OE	0.00007	0.00009	0.00009
	OE	0.00595	0.00655	0.00861

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX8H7R	!OE	-0.00036	-0.00036	-0.00036
	!OE	-0.00001	-0.00001	-0.00001
	!OE	0.00001	0.00001	0.00001
	!OE	0.00043	0.00044	0.00044

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX8H7R	!OE	0.00036	0.00036	0.00037
	!OE	0.00001	0.00001	0.00001
	!OE	-0.00001	-0.00001	-0.00001
	!OE	-0.00044	-0.00043	-0.00043

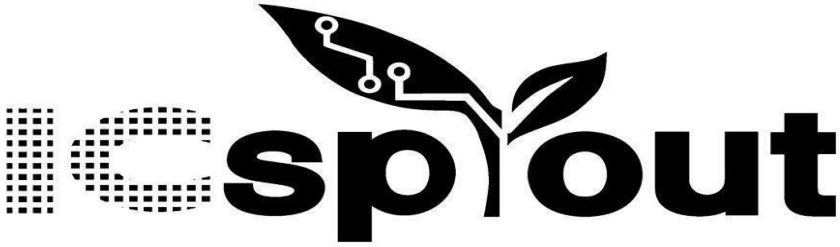
Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX8H7R	(A * Y)	-0.00014	0.00062	0.00335
	(A * Y)	0.00047	0.00047	0.00051
	(A * Y)	-0.00014	-0.00014	-0.00013
	(A * Y)	0.00396	0.00472	0.00744
	(!A * !Y)	0.00261	0.00320	0.00518
	(!A * !Y)	-0.00004	-0.00003	-0.00001
	(!A * !Y)	0.00021	0.00026	0.00027
	(!A * !Y)	0.00483	0.00541	0.00738

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TBUFX8H7R	(A * Y)	0.00497	0.00577	0.00861
	(A * Y)	-0.00051	-0.00047	-0.00047
	(A * Y)	0.00013	0.00014	0.00015
	(A * Y)	0.00088	0.00167	0.00452
	(!A * !Y)	0.00399	0.00440	0.00592
	(!A * !Y)	0.00001	0.00004	0.00004
	(!A * !Y)	-0.00027	-0.00026	-0.00021
	(!A * !Y)	0.00179	0.00221	0.00373

TIEHIH7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Footprint

Cell Name	Area
TIEHIH7R	1.12000

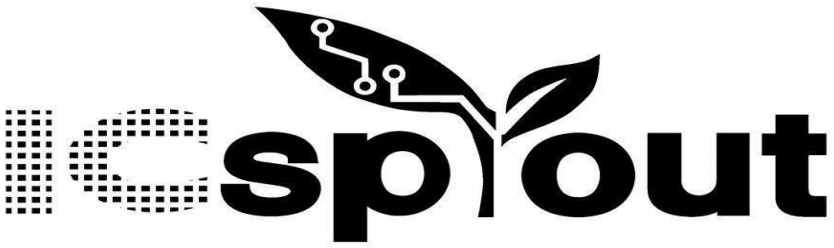
Pin Capacitance Information

Cell Name	Max Cap(pf)
	Y
TIEHIH7R	0.27077

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
TIEHIH7R	0.00000	0.00164	0.00164

TIELOH7R



tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Footprint

Cell Name	Area
TIELOH7R	1.12000

Pin Capacitance Information

Cell Name	Max Cap(pf)
	Y
TIELOH7R	0.46957

Leakage Information

Cell Name	Leakage(nW)		
	Min.	**Avg**	**Max.**
TIELOH7R	0.00000	0.00494	0.00494

TINVX0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX0P5H7R	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX0P5H7R	0.00063	0.00122	0.02208

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX0P5H7R	0.00000	0.13174	0.14525

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX0P5H7R	A->Y (FR)	0.03026	0.18407	0.64375
	OE->Y (FR)	0.01791	0.07247	0.23017
	OE->Y (RR)	0.03327	0.16098	0.47753

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX0P5H7R	A->Y (RF)	0.02109	0.13221	0.49669
	OE->Y (FF)	0.01888	0.07325	0.23017
	OE->Y (RF)	-0.00778	0.11922	0.50021

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX0P5H7R	A	0.00063	0.00068	0.00090
	A	-0.00006	-0.00006	-0.00006
	A	0.00005	0.00005	0.00006
	A	-0.00000	0.00003	0.00025
	OE	0.00030	0.00042	0.00084
	OE	-0.00000	-0.00000	-0.00000
	OE	0.00004	0.00005	0.00005
	OE	0.00095	0.00107	0.00148

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX0P5H7R	A	-0.00006	-0.00003	0.00017
	A	0.00006	0.00006	0.00006
	A	-0.00006	-0.00005	-0.00005
	A	0.00055	0.00061	0.00082
	OE	-0.00010	0.00002	0.00046
	OE	0.00009	0.00009	0.00009
	OE	-0.00005	-0.00003	0.00001
	OE	0.00093	0.00106	0.00151

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P5H7R	!OE	-0.00017	-0.00016	-0.00015
	!OE	-0.00001	-0.00001	-0.00001
	!OE	0.00001	0.00001	0.00001
	!OE	0.00018	0.00018	0.00018

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P5H7R	!OE	0.00017	0.00017	0.00017
	!OE	0.00001	0.00001	0.00001
	!OE	-0.00001	-0.00001	-0.00001
	!OE	-0.00017	-0.00017	-0.00016

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P5H7R	(A * !Y)	-0.00011	0.00001	0.00043
	(A * !Y)	0.00004	0.00004	0.00004
	(A * !Y)	-0.00001	-0.00001	-0.00001
	(A * !Y)	0.00080	0.00092	0.00134
	(!A * Y)	-0.00005	0.00007	0.00048
	(!A * Y)	0.00003	0.00003	0.00003
	(!A * Y)	0.00000	0.00000	0.00001
	(!A * Y)	0.00076	0.00088	0.00130

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P5H7R	(A * !Y)	0.00068	0.00082	0.00128
	(A * !Y)	-0.00004	-0.00004	-0.00004
	(A * !Y)	0.00001	0.00001	0.00001
	(A * !Y)	-0.00023	-0.00009	0.00038
	(!A * Y)	0.00069	0.00081	0.00124
	(!A * Y)	-0.00003	-0.00003	-0.00003
	(!A * Y)	-0.00000	-0.00000	-0.00000
	(!A * Y)	-0.00013	-0.00001	0.00043

TINVX0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX0P7H7R	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX0P7H7R	0.00064	0.00120	0.02500

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX0P7H7R	0.00000	0.13453	0.14571

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX0P7H7R	A->Y (FR)	0.02864	0.18284	0.64602
	OE->Y (FR)	0.01675	0.07173	0.23017
	OE->Y (RR)	0.03079	0.15851	0.47593

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX0P7H7R	A->Y (RF)	0.01979	0.13067	0.49570
	OE->Y (FF)	0.01778	0.07261	0.23017
	OE->Y (RF)	-0.01428	0.11710	0.49881

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX0P7H7R	A	0.00068	0.00073	0.00098
	A	-0.00007	-0.00007	-0.00007
	A	0.00006	0.00006	0.00006
	A	0.00002	0.00006	0.00030
	OE	0.00033	0.00045	0.00088
	OE	-0.00000	-0.00000	-0.00000
	OE	0.00005	0.00006	0.00009
	OE	0.00087	0.00100	0.00142

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX0P7H7R	A	-0.00007	-0.00004	0.00019
	A	0.00007	0.00007	0.00007
	A	-0.00006	-0.00006	-0.00006
	A	0.00057	0.00063	0.00087
	OE	-0.00009	0.00003	0.00049
	OE	0.00010	0.00010	0.00010
	OE	-0.00003	-0.00003	0.00001
	OE	0.00088	0.00103	0.00149

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P7H7R	!OE	-0.00015	-0.00014	-0.00013
	!OE	-0.00001	-0.00001	-0.00001
	!OE	0.00001	0.00001	0.00001
	!OE	0.00018	0.00018	0.00018

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P7H7R	!OE	0.00015	0.00015	0.00015
	!OE	0.00001	0.00001	0.00001
	!OE	-0.00001	-0.00001	-0.00001
	!OE	-0.00017	-0.00017	-0.00016

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P7H7R	(A * !Y)	-0.00010	0.00003	0.00046
	(A * !Y)	0.00004	0.00004	0.00004
	(A * !Y)	-0.00001	-0.00001	-0.00001
	(A * !Y)	0.00074	0.00086	0.00130
	(!A * Y)	-0.00003	0.00009	0.00051
	(!A * Y)	0.00002	0.00003	0.00003
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	0.00070	0.00082	0.00124

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX0P7H7R	(A * !Y)	0.00063	0.00077	0.00125
	(A * !Y)	-0.00004	-0.00004	-0.00004
	(A * !Y)	0.00001	0.00001	0.00002
	(A * !Y)	-0.00022	-0.00007	0.00042
	(!A * Y)	0.00064	0.00076	0.00120
	(!A * Y)	-0.00003	-0.00003	-0.00002
	(!A * Y)	-0.00001	-0.00001	-0.00000
	(!A * Y)	-0.00010	0.00002	0.00047

TINVX12H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX12H7R	13.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX12H7R	0.00585	0.00725	0.47441

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX12H7R	0.00000	3.78413	4.22681

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX12H7R	A->Y (FR)	0.04513	0.19036	0.54620
	OE->Y (FR)	0.04004	0.07771	0.14646
	OE->Y (RR)	0.02164	0.15661	0.49338

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX12H7R	A->Y (RF)	0.04765	0.14983	0.38404
	OE->Y (FF)	0.01739	0.04537	0.09503
	OE->Y (RF)	0.03735	0.15220	0.40681

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX12H7R	A	0.01036	0.01201	0.01677
	A	0.00061	0.00062	0.00064
	A	-0.00052	-0.00051	-0.00038
	A	0.00913	0.01076	0.01549
	OE	0.00278	0.00423	0.00961
	OE	0.00069	0.00070	0.00071
	OE	-0.00013	-0.00006	-0.00003
	OE	0.00875	0.01018	0.01534

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX12H7R	A	0.01251	0.01399	0.01846
	A	-0.00063	-0.00062	-0.00057
	A	0.00038	0.00051	0.00052
	A	0.01374	0.01527	0.02047
	OE	0.00823	0.00999	0.01447
	OE	0.00001	0.00009	0.00026
	OE	0.00037	0.00046	0.00049
	OE	0.01124	0.01302	0.01786

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX12H7R	!OE	0.00051	0.00174	0.00609
	!OE	0.00027	0.00028	0.00030
	!OE	-0.00022	-0.00022	-0.00021
	!OE	0.00518	0.00643	0.01079

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX12H7R	!OE	0.00516	0.00650	0.01115
	!OE	-0.00028	-0.00028	-0.00027
	!OE	0.00022	0.00022	0.00023
	!OE	0.00048	0.00180	0.00645

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX12H7R	(A * !Y)	0.00694	0.00869	0.01316
	(A * !Y)	-0.00022	-0.00022	-0.00021
	(A * !Y)	0.00067	0.00074	0.00082
	(A * !Y)	0.00928	0.01112	0.01559
	(!A * Y)	0.00058	0.00202	0.00718
	(!A * Y)	0.00105	0.00106	0.00110
	(!A * Y)	-0.00030	-0.00030	-0.00027
	(!A * Y)	0.00709	0.00856	0.01374

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX12H7R	(A * !Y)	0.00640	0.00693	0.00905
	(A * !Y)	0.00021	0.00024	0.00029
	(A * !Y)	-0.00074	-0.00073	-0.00067
	(A * !Y)	0.00399	0.00452	0.00662
	(!A * Y)	0.00811	0.00963	0.01501
	(!A * Y)	-0.00110	-0.00106	-0.00105
	(!A * Y)	0.00030	0.00031	0.00032
	(!A * Y)	0.00154	0.00306	0.00845

TINVX16H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX16H7R	17.92000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX16H7R	0.00772	0.01014	0.63923

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX16H7R	0.00000	5.09883	5.62632

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX16H7R	A->Y (FR)	0.04505	0.19039	0.54641
	OE->Y (FR)	0.03840	0.07494	0.14116
	OE->Y (RR)	0.02160	0.15691	0.49416

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX16H7R	A->Y (RF)	0.04745	0.15127	0.38929
	OE->Y (FF)	0.01773	0.04578	0.09557
	OE->Y (RF)	0.03634	0.15134	0.40740

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX16H7R	A	0.01366	0.01585	0.02230
	A	0.00073	0.00083	0.00084
	A	-0.00070	-0.00069	-0.00064
	A	0.01204	0.01425	0.02055
	OE	0.00362	0.00562	0.01296
	OE	0.00093	0.00095	0.00096
	OE	-0.00021	-0.00009	-0.00005
	OE	0.01193	0.01393	0.02105

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX16H7R	A	0.01645	0.01847	0.02444
	A	-0.00083	-0.00082	-0.00073
	A	0.00064	0.00069	0.00071
	A	0.01801	0.02007	0.02630
	OE	0.01064	0.01294	0.01899
	OE	0.00004	0.00014	0.00036
	OE	0.00053	0.00060	0.00065
	OE	0.01499	0.01731	0.02371

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX16H7R	!OE	0.00068	0.00232	0.00811
	!OE	0.00035	0.00037	0.00038
	!OE	-0.00031	-0.00029	-0.00028
	!OE	0.00686	0.00851	0.01432

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX16H7R	!OE	0.00678	0.00857	0.01477
	!OE	-0.00038	-0.00036	-0.00033
	!OE	0.00029	0.00030	0.00031
	!OE	0.00059	0.00239	0.00857

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX16H7R	(A * !Y)	0.00894	0.01124	0.01729
	(A * !Y)	-0.00029	-0.00028	-0.00027
	(A * !Y)	0.00095	0.00100	0.00107
	(A * !Y)	0.01242	0.01479	0.02087
	(!A * Y)	0.00072	0.00271	0.00985
	(!A * Y)	0.00139	0.00143	0.00152
	(!A * Y)	-0.00042	-0.00041	-0.00040
	(!A * Y)	0.00981	0.01180	0.01895

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX16H7R	(A * !Y)	0.00874	0.00955	0.01267
	(A * !Y)	0.00028	0.00031	0.00038
	(A * !Y)	-0.00100	-0.00097	-0.00095
	(A * !Y)	0.00524	0.00602	0.00908
	(!A * Y)	0.01107	0.01316	0.02062
	(!A * Y)	-0.00145	-0.00142	-0.00139
	(!A * Y)	0.00040	0.00041	0.00043
	(!A * Y)	0.00195	0.00405	0.01150

TINVX1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX1H7R	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX1H7R	0.00069	0.00125	0.03075

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX1H7R	0.00000	0.13867	0.15584

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX1H7R	A->Y (FR)	0.02608	0.18476	0.66156
	OE->Y (FR)	0.01715	0.07198	0.23017
	OE->Y (RR)	0.02833	0.16080	0.49147

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX1H7R	A->Y (RF)	0.01834	0.13330	0.51097
	OE->Y (FF)	0.01837	0.07301	0.23017
	OE->Y (RF)	-0.02065	0.12014	0.51398

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX1H7R	A	0.00075	0.00081	0.00110
	A	-0.00009	-0.00009	-0.00009
	A	0.00007	0.00007	0.00007
	A	0.00002	0.00006	0.00034
	OE	0.00035	0.00047	0.00091
	OE	-0.00001	-0.00001	-0.00001
	OE	0.00006	0.00007	0.00007
	OE	0.00089	0.00101	0.00143

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX1H7R	A	-0.00009	-0.00005	0.00022
	A	0.00009	0.00009	0.00009
	A	-0.00007	-0.00007	-0.00007
	A	0.00063	0.00070	0.00097
	OE	-0.00009	0.00003	0.00048
	OE	0.00012	0.00012	0.00012
	OE	-0.00007	-0.00004	-0.00000
	OE	0.00094	0.00109	0.00155

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1H7R	!OE	-0.00017	-0.00016	-0.00015
	!OE	-0.00002	-0.00002	-0.00001
	!OE	0.00001	0.00001	0.00001
	!OE	0.00018	0.00018	0.00018

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1H7R	!OE	0.00017	0.00017	0.00017
	!OE	0.00001	0.00002	0.00002
	!OE	-0.00001	-0.00001	-0.00001
	!OE	-0.00018	-0.00017	-0.00016

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1H7R	(A * !Y)	-0.00010	0.00002	0.00045
	(A * !Y)	0.00005	0.00005	0.00005
	(A * !Y)	-0.00001	-0.00001	-0.00000
	(A * !Y)	0.00077	0.00089	0.00132
	(!A * Y)	-0.00003	0.00009	0.00051
	(!A * Y)	0.00003	0.00003	0.00003
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	0.00072	0.00084	0.00126

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1H7R	(A * !Y)	0.00065	0.00079	0.00126
	(A * !Y)	-0.00005	-0.00005	-0.00004
	(A * !Y)	0.00001	0.00001	0.00002
	(A * !Y)	-0.00023	-0.00009	0.00040
	(!A * Y)	0.00066	0.00079	0.00122
	(!A * Y)	-0.00003	-0.00003	-0.00003
	(!A * Y)	-0.00001	-0.00001	-0.00001
	(!A * Y)	-0.00010	0.00002	0.00046

TINVX1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX1P4H7R	1.96000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX1P4H7R	0.00077	0.00129	0.03497

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX1P4H7R	0.00000	0.14269	0.16932

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX1P4H7R	A->Y (FR)	0.02628	0.18529	0.66230
	OE->Y (FR)	0.01832	0.07292	0.23018
	OE->Y (RR)	0.03127	0.16537	0.49779

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX1P4H7R	A->Y (RF)	0.01823	0.13286	0.51142
	OE->Y (FF)	0.01966	0.07403	0.23018
	OE->Y (RF)	-0.02339	0.11790	0.51162

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX1P4H7R	A	0.00092	0.00098	0.00129
	A	-0.00010	-0.00010	-0.00010
	A	0.00008	0.00008	0.00008
	A	0.00010	0.00015	0.00045
	OE	0.00051	0.00062	0.00105
	OE	-0.00001	-0.00001	-0.00001
	OE	0.00008	0.00008	0.00008
	OE	0.00105	0.00116	0.00157

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX1P4H7R	A	-0.00010	-0.00006	0.00023
	A	0.00010	0.00010	0.00010
	A	-0.00008	-0.00008	-0.00008
	A	0.00069	0.00077	0.00107
	OE	-0.00009	0.00003	0.00049
	OE	0.00013	0.00013	0.00013
	OE	-0.00007	-0.00004	0.00001
	OE	0.00098	0.00113	0.00160

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1P4H7R	!OE	-0.00018	-0.00017	-0.00016
	!OE	-0.00002	-0.00002	-0.00002
	!OE	0.00001	0.00001	0.00001
	!OE	0.00020	0.00020	0.00020

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1P4H7R	!OE	0.00018	0.00018	0.00018
	!OE	0.00002	0.00002	0.00002
	!OE	-0.00001	-0.00001	-0.00001
	!OE	-0.00020	-0.00019	-0.00018

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1P4H7R	(A * !Y)	-0.00010	0.00002	0.00044
	(A * !Y)	0.00005	0.00005	0.00005
	(A * !Y)	-0.00002	-0.00002	-0.00001
	(A * !Y)	0.00081	0.00093	0.00136
	(!A * Y)	0.00001	0.00012	0.00053
	(!A * Y)	0.00002	0.00003	0.00003
	(!A * Y)	0.00001	0.00001	0.00001
	(!A * Y)	0.00078	0.00090	0.00131

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX1P4H7R	(A * !Y)	0.00069	0.00083	0.00130
	(A * !Y)	-0.00005	-0.00005	-0.00005
	(A * !Y)	0.00001	0.00002	0.00002
	(A * !Y)	-0.00023	-0.00009	0.00040
	(!A * Y)	0.00068	0.00080	0.00122
	(!A * Y)	-0.00003	-0.00003	-0.00002
	(!A * Y)	-0.00001	-0.00001	-0.00001
	(!A * Y)	-0.00010	0.00002	0.00045

TINVX2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX2H7R	1.68000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX2H7R	0.00084	0.00148	0.04116

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX2H7R	0.00000	0.14892	0.19089

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX2H7R	A->Y (FR)	0.02436	0.18381	0.66355
	OE->Y (FR)	0.01833	0.07289	0.23019
	OE->Y (RR)	0.02797	0.16282	0.49717

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX2H7R	A->Y (RF)	0.01652	0.12909	0.50342
	OE->Y (FF)	0.01993	0.07425	0.23018
	OE->Y (RF)	-0.03122	0.11495	0.50511

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX2H7R	A	0.00101	0.00108	0.00145
	A	-0.00012	-0.00012	-0.00012
	A	0.00010	0.00010	0.00010
	A	0.00005	0.00010	0.00046
	OE	0.00050	0.00061	0.00103
	OE	-0.00002	-0.00002	-0.00000
	OE	0.00010	0.00010	0.00010
	OE	0.00107	0.00118	0.00159

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX2H7R	A	-0.00012	-0.00007	0.00028
	A	0.00012	0.00012	0.00012
	A	-0.00010	-0.00010	-0.00010
	A	0.00080	0.00091	0.00126
	OE	-0.00009	0.00003	0.00049
	OE	0.00015	0.00015	0.00016
	OE	-0.00010	-0.00005	0.00000
	OE	0.00116	0.00131	0.00179

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX2H7R	!OE	-0.00021	-0.00020	-0.00018
	!OE	-0.00002	-0.00002	-0.00002
	!OE	0.00001	0.00001	0.00001
	!OE	0.00022	0.00022	0.00022

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX2H7R	!OE	0.00021	0.00021	0.00021
	!OE	0.00002	0.00002	0.00002
	!OE	-0.00001	-0.00001	-0.00001
	!OE	-0.00021	-0.00020	-0.00019

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX2H7R	(A * !Y)	-0.00010	0.00002	0.00044
	(A * !Y)	0.00006	0.00006	0.00006
	(A * !Y)	-0.00001	-0.00001	-0.00001
	(A * !Y)	0.00093	0.00105	0.00147
	(!A * Y)	0.00001	0.00012	0.00053
	(!A * Y)	0.00003	0.00003	0.00004
	(!A * Y)	0.00002	0.00002	0.00002
	(!A * Y)	0.00088	0.00099	0.00140

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX2H7R	(A * !Y)	0.00070	0.00084	0.00130
	(A * !Y)	-0.00006	-0.00006	-0.00005
	(A * !Y)	0.00001	0.00001	0.00002
	(A * !Y)	-0.00035	-0.00020	0.00030
	(!A * Y)	0.00071	0.00082	0.00123
	(!A * Y)	-0.00004	-0.00003	-0.00003
	(!A * Y)	-0.00002	-0.00001	-0.00001
	(!A * Y)	-0.00019	-0.00006	0.00037

TINVX3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX3H7R	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX3H7R	0.00191	0.00237	0.12088

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX3H7R	0.00000	1.07676	1.19438

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX3H7R	A->Y (FR)	0.05388	0.20025	0.56028
	OE->Y (FR)	0.03796	0.07334	0.13734
	OE->Y (RR)	0.02400	0.15932	0.49502

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX3H7R	A->Y (RF)	0.05503	0.15333	0.37701
	OE->Y (FF)	0.01760	0.04624	0.09734
	OE->Y (RF)	0.04072	0.14838	0.38791

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX3H7R	A	0.00317	0.00361	0.00493
	A	0.00015	0.00016	0.00017
	A	-0.00014	-0.00013	-0.00009
	A	0.00255	0.00299	0.00431
	OE	0.00079	0.00124	0.00292
	OE	0.00019	0.00019	0.00020
	OE	-0.00006	-0.00002	-0.00000
	OE	0.00270	0.00315	0.00475

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX3H7R	A	0.00379	0.00419	0.00539
	A	-0.00016	-0.00016	-0.00015
	A	0.00011	0.00014	0.00014
	A	0.00440	0.00481	0.00612
	OE	0.00254	0.00300	0.00434
	OE	0.00002	0.00003	0.00004
	OE	0.00010	0.00011	0.00012
	OE	0.00367	0.00414	0.00556

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX3H7R	!OE	0.00010	0.00043	0.00161
	!OE	0.00007	0.00007	0.00007
	!OE	-0.00006	-0.00005	-0.00004
	!OE	0.00162	0.00195	0.00314

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX3H7R	!OE	0.00162	0.00199	0.00328
	!OE	-0.00007	-0.00007	-0.00006
	!OE	0.00006	0.00006	0.00006
	!OE	0.00011	0.00047	0.00176

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX3H7R	(A * !Y)	0.00215	0.00261	0.00395
	(A * !Y)	-0.00005	-0.00004	-0.00004
	(A * !Y)	0.00016	0.00018	0.00021
	(A * !Y)	0.00311	0.00360	0.00494
	(!A * Y)	0.00007	0.00051	0.00211
	(!A * Y)	0.00028	0.00028	0.00029
	(!A * Y)	-0.00009	-0.00009	-0.00008
	(!A * Y)	0.00212	0.00257	0.00418

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX3H7R	(A * !Y)	0.00210	0.00230	0.00307
	(A * !Y)	0.00004	0.00005	0.00006
	(A * !Y)	-0.00019	-0.00018	-0.00016
	(A * !Y)	0.00112	0.00131	0.00208
	(!A * Y)	0.00266	0.00313	0.00481
	(!A * Y)	-0.00029	-0.00028	-0.00028
	(!A * Y)	0.00009	0.00009	0.00010
	(!A * Y)	0.00059	0.00106	0.00274

TINVX4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX4H7R	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX4H7R	0.00228	0.00272	0.15483

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX4H7R	0.00000	1.32341	1.46090

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX4H7R	A->Y (FR)	0.05077	0.19661	0.55502
	OE->Y (FR)	0.04022	0.07748	0.14574
	OE->Y (RR)	0.02287	0.15722	0.49134

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX4H7R	A->Y (RF)	0.05223	0.15098	0.37641
	OE->Y (FF)	0.01714	0.04566	0.09654
	OE->Y (RF)	0.04012	0.15054	0.39605

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX4H7R	A	0.00388	0.00443	0.00609
	A	0.00020	0.00021	0.00022
	A	-0.00018	-0.00017	-0.00014
	A	0.00321	0.00375	0.00534
	OE	0.00102	0.00153	0.00345
	OE	0.00024	0.00024	0.00025
	OE	-0.00006	-0.00002	0.00004
	OE	0.00323	0.00374	0.00559

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX4H7R	A	0.00460	0.00509	0.00658
	A	-0.00022	-0.00021	-0.00020
	A	0.00017	0.00018	0.00018
	A	0.00526	0.00577	0.00732
	OE	0.00315	0.00374	0.00532
	OE	0.00001	0.00003	0.00007
	OE	0.00015	0.00015	0.00018
	OE	0.00437	0.00496	0.00656

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX4H7R	!OE	0.00016	0.00057	0.00202
	!OE	0.00009	0.00009	0.00010
	!OE	-0.00007	-0.00007	-0.00007
	!OE	0.00198	0.00239	0.00384

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX4H7R	!OE	0.00197	0.00242	0.00398
	!OE	-0.00010	-0.00009	-0.00009
	!OE	0.00007	0.00007	0.00008
	!OE	0.00014	0.00059	0.00215

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX4H7R	(A * !Y)	0.00268	0.00326	0.00485
	(A * !Y)	-0.00007	-0.00006	-0.00005
	(A * !Y)	0.00022	0.00024	0.00026
	(A * !Y)	0.00372	0.00430	0.00588
	(!A * Y)	0.00016	0.00067	0.00252
	(!A * Y)	0.00036	0.00036	0.00038
	(!A * Y)	-0.00011	-0.00010	-0.00009
	(!A * Y)	0.00256	0.00308	0.00493

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX4H7R	(A * !Y)	0.00241	0.00261	0.00342
	(A * !Y)	0.00005	0.00007	0.00007
	(A * !Y)	-0.00025	-0.00024	-0.00022
	(A * !Y)	0.00139	0.00158	0.00239
	(!A * Y)	0.00307	0.00361	0.00553
	(!A * Y)	-0.00037	-0.00036	-0.00036
	(!A * Y)	0.00011	0.00011	0.00012
	(!A * Y)	0.00065	0.00119	0.00312

TINVX6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX6H7R	7.84000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX6H7R	0.00325	0.00390	0.23271

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX6H7R	0.00000	1.91746	2.13196

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX6H7R	A->Y (FR)	0.04768	0.19364	0.55242
	OE->Y (FR)	0.04290	0.08195	0.15387
	OE->Y (RR)	0.02190	0.15641	0.49131

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX6H7R	A->Y (RF)	0.04967	0.15002	0.37939
	OE->Y (FF)	0.01727	0.04561	0.09608
	OE->Y (RF)	0.03997	0.15437	0.40814

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX6H7R	A	0.00551	0.00632	0.00888
	A	0.00029	0.00032	0.00036
	A	-0.00027	-0.00026	-0.00025
	A	0.00474	0.00551	0.00787
	OE	0.00140	0.00212	0.00478
	OE	0.00035	0.00036	0.00036
	OE	-0.00006	-0.00003	0.00001
	OE	0.00458	0.00530	0.00786

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX6H7R	A	0.00654	0.00729	0.00950
	A	-0.00033	-0.00032	-0.00023
	A	0.00025	0.00027	0.00029
	A	0.00733	0.00809	0.01040
	OE	0.00454	0.00543	0.00770
	OE	0.00000	0.00004	0.00006
	OE	0.00020	0.00023	0.00025
	OE	0.00619	0.00709	0.00941

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX6H7R	!OE	0.00025	0.00086	0.00303
	!OE	0.00014	0.00014	0.00015
	!OE	-0.00011	-0.00011	-0.00010
	!OE	0.00283	0.00343	0.00560

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX6H7R	!OE	0.00282	0.00349	0.00581
	!OE	-0.00015	-0.00014	-0.00014
	!OE	0.00011	0.00011	0.00011
	!OE	0.00025	0.00092	0.00324

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX6H7R	(A * !Y)	0.00390	0.00478	0.00703
	(A * !Y)	-0.00012	-0.00011	-0.00011
	(A * !Y)	0.00034	0.00037	0.00040
	(A * !Y)	0.00523	0.00614	0.00841
	(!A * Y)	0.00026	0.00098	0.00354
	(!A * Y)	0.00048	0.00052	0.00053
	(!A * Y)	-0.00015	-0.00015	-0.00014
	(!A * Y)	0.00373	0.00445	0.00702

Passive power(pJ) for OE falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX6H7R	(A * !Y)	0.00341	0.00366	0.00466
	(A * !Y)	0.00011	0.00012	0.00014
	(A * !Y)	-0.00038	-0.00037	-0.00034
	(A * !Y)	0.00203	0.00230	0.00330
	(!A * Y)	0.00428	0.00504	0.00772
	(!A * Y)	-0.00053	-0.00052	-0.00048
	(!A * Y)	0.00015	0.00016	0.00016
	(!A * Y)	0.00081	0.00156	0.00424

TINVX8H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

3-State Inverter with High Enable

Truth Table

INPUT		OUTPUT
A	OE	Y
-	0	HiZ
0	1	1
1	1	0

Footprint

Cell Name	Area
TINVX8H7R	10.08000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	OE	Y
TINVX8H7R	0.00435	0.00532	0.31954

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
TINVX8H7R	0.00000	2.61747	2.88335

Delay Information

Delay(ns) to Y rising :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX8H7R	A->Y (FR)	0.04581	0.19136	0.54886
	OE->Y (FR)	0.03738	0.07310	0.13778
	OE->Y (RR)	0.02124	0.15595	0.49237

Delay(ns) to Y falling :

Cell Name	Timing Arc(Dir)	Delay(ns)		
		Min	Avg	Max
TINVX8H7R	A->Y (RF)	0.04760	0.15010	0.38640
	OE->Y (FF)	0.01701	0.04484	0.09426
	OE->Y (RF)	0.03653	0.14982	0.40351

Power Information

Internal switching power(pJ) to Y rising :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX8H7R	A	0.00710	0.00819	0.01151
	A	0.00040	0.00041	0.00042
	A	-0.00035	-0.00034	-0.00033
	A	0.00596	0.00704	0.01029
	OE	0.00175	0.00279	0.00671
	OE	0.00047	0.00048	0.00049
	OE	-0.00012	-0.00005	0.00001
	OE	0.00604	0.00712	0.01083

Internal switching power(pJ) to Y falling :

Cell Name	Input	Power(pJ)		
		min	avg	max
TINVX8H7R	A	0.00832	0.00931	0.01235
	A	-0.00042	-0.00041	-0.00034
	A	0.00033	0.00034	0.00035
	A	0.00942	0.01046	0.01407
	OE	0.00542	0.00654	0.00965
	OE	0.00005	0.00007	0.00016
	OE	0.00026	0.00030	0.00032
	OE	0.00777	0.00890	0.01209

Passive power(pJ) for A rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX8H7R	!OE	0.00031	0.00115	0.00412
	!OE	0.00017	0.00019	0.00020
	!OE	-0.00015	-0.00015	-0.00014
	!OE	0.00376	0.00459	0.00757

Passive power(pJ) for A falling (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX8H7R	!OE	0.00363	0.00455	0.00774
	!OE	-0.00019	-0.00018	-0.00017
	!OE	0.00014	0.00015	0.00015
	!OE	0.00018	0.00111	0.00429

Passive power(pJ) for OE rising (conditional):

Cell Name	When	Power(pJ)		
		min	avg	max
TINVX8H7R	(A * !Y)	0.00460	0.00571	0.00881
	(A * !Y)	-0.00014	-0.00013	-0.00012
	(A * !Y)	0.00045	0.00047	0.00048
	(A * !Y)	0.00659	0.00769	0.01078
	(!A * Y)	0.00031	0.00133	0.00504
	(!A * Y)	0.00071	0.00072	0.00076
	(!A * Y)	-0.00022	-0.00021	-0.00019
	(!A * Y)	0.00500	0.00605	0.00977

Passive power(pJ) for OE falling (conditional):

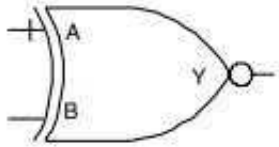
Cell Name	When	Power(pJ)		
		min	avg	max
TINVX8H7R	(A * !Y)	0.00466	0.00509	0.00680
	(A * !Y)	0.00012	0.00014	0.00017
	(A * !Y)	-0.00048	-0.00047	-0.00045
	(A * !Y)	0.00269	0.00313	0.00483
	(!A * Y)	0.00585	0.00694	0.01082
	(!A * Y)	-0.00074	-0.00072	-0.00071
	(!A * Y)	0.00021	0.00022	0.00023
	(!A * Y)	0.00111	0.00220	0.00608

XNOR2X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X0P5H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X0P5H7R	0.00157	0.00082	0.04265

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X0P5H7R	0.00000	0.44413	0.63306

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X0P5H7R	A->Y (RR)	B	0.03654	0.17486	0.51211
	A->Y (FR)	!B	0.06467	0.21164	0.57233
	B->Y (RR)	A	0.05436	0.20563	0.57098
	B->Y (FR)	!A	0.07705	0.22747	0.59470

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X0P5H7R	A->Y (FF)	B	0.04959	0.16858	0.45783
	A->Y (RF)	!B	0.05362	0.16311	0.40867
	B->Y (FF)	A	0.06535	0.19373	0.49922
	B->Y (RF)	!A	0.07986	0.19033	0.44003

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X0P5H7R	A	B	0.00025	0.00046	0.00119
	A	B	0.00005	0.00005	0.00005
	A	B	-0.00006	-0.00005	-0.00005
	A	B	0.00147	0.00169	0.00241
	A	!B	0.00154	0.00169	0.00217
	A	!B	0.00005	0.00005	0.00005
	A	!B	-0.00001	-0.00001	-0.00001
	A	!B	0.00087	0.00102	0.00150
	B	A	0.00043	0.00052	0.00082
	B	A	0.00008	0.00008	0.00008
	B	A	-0.00007	-0.00007	-0.00007
	B	A	0.00144	0.00153	0.00183
	B	!A	0.00173	0.00185	0.00223
	B	!A	0.00002	0.00002	0.00002
	B	!A	-0.00002	-0.00002	-0.00002
	B	!A	0.00131	0.00144	0.00181

Internal switching power(pJ) to Y falling (conditional):

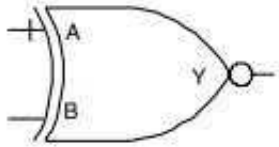
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X0P5H7R	A	B	0.00169	0.00192	0.00270
	A	B	-0.00005	-0.00005	-0.00005
	A	B	0.00007	0.00008	0.00008
	A	B	0.00044	0.00067	0.00145
	A	!B	0.00109	0.00131	0.00196
	A	!B	-0.00003	-0.00002	-0.00001
	A	!B	0.00001	0.00001	0.00002
	A	!B	0.00180	0.00201	0.00267
	B	A	0.00201	0.00212	0.00247
	B	A	-0.00008	-0.00008	-0.00008
	B	A	0.00007	0.00007	0.00007
	B	A	0.00100	0.00110	0.00145
	B	!A	0.00126	0.00137	0.00170
	B	!A	-0.00002	-0.00002	-0.00002
	B	!A	0.00002	0.00002	0.00002
	B	!A	0.00167	0.00178	0.00214

XNOR2X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X0P7H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X0P7H7R	0.00159	0.00082	0.04838

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X0P7H7R	0.00000	0.45645	0.65073

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X0P7H7R	A->Y (RR)	B	0.03562	0.17484	0.51356
	A->Y (FR)	!B	0.06392	0.21134	0.57318
	B->Y (RR)	A	0.05337	0.20521	0.57140
	B->Y (FR)	!A	0.07623	0.22706	0.59500

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X0P7H7R	A->Y (FF)	B	0.04899	0.16889	0.45931
	A->Y (RF)	!B	0.05276	0.16292	0.40877
	B->Y (FF)	A	0.06444	0.19350	0.49984
	B->Y (RF)	!A	0.07930	0.19032	0.44015

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X0P7H7R	A	B	0.00026	0.00048	0.00121
	A	B	0.00004	0.00005	0.00005
	A	B	-0.00007	-0.00005	-0.00004
	A	B	0.00148	0.00171	0.00244
	A	!B	0.00155	0.00171	0.00223
	A	!B	0.00005	0.00005	0.00005
	A	!B	-0.00001	-0.00001	-0.00001
	A	!B	0.00087	0.00103	0.00150
	B	A	0.00045	0.00054	0.00085
	B	A	0.00007	0.00007	0.00008
	B	A	-0.00007	-0.00006	-0.00006
	B	A	0.00145	0.00154	0.00185
	B	!A	0.00174	0.00187	0.00227
	B	!A	0.00002	0.00002	0.00002
	B	!A	-0.00002	-0.00002	-0.00001
	B	!A	0.00131	0.00145	0.00182

Internal switching power(pJ) to Y falling (conditional):

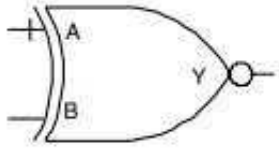
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X0P7H7R	A	B	0.00171	0.00195	0.00274
	A	B	-0.00005	-0.00005	-0.00004
	A	B	0.00007	0.00007	0.00007
	A	B	0.00046	0.00069	0.00148
	A	!B	0.00111	0.00133	0.00198
	A	!B	-0.00002	-0.00002	-0.00002
	A	!B	0.00001	0.00001	0.00001
	A	!B	0.00184	0.00205	0.00271
	B	A	0.00203	0.00214	0.00250
	B	A	-0.00008	-0.00007	-0.00007
	B	A	0.00006	0.00006	0.00007
	B	A	0.00103	0.00113	0.00149
	B	!A	0.00128	0.00139	0.00173
	B	!A	-0.00002	-0.00002	-0.00002
	B	!A	0.00002	0.00002	0.00002
	B	!A	0.00170	0.00181	0.00218

XNOR2X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X1H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X1H7R	0.00159	0.00082	0.05767

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X1H7R	0.00000	0.47405	0.67495

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X1H7R	A->Y (RR)	B	0.03474	0.17511	0.51559
	A->Y (FR)	!B	0.06334	0.21132	0.57288
	B->Y (RR)	A	0.05245	0.20506	0.57262
	B->Y (FR)	!A	0.07559	0.22699	0.59506

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X1H7R	A->Y (FF)	B	0.04881	0.17161	0.46788
	A->Y (RF)	!B	0.05221	0.16501	0.41628
	B->Y (FF)	A	0.06387	0.19556	0.50738
	B->Y (RF)	!A	0.07923	0.19272	0.44774

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X1H7R	A	B	0.00029	0.00052	0.00126
	A	B	0.00004	0.00004	0.00004
	A	B	-0.00005	-0.00005	-0.00004
	A	B	0.00152	0.00174	0.00249
	A	!B	0.00160	0.00176	0.00225
	A	!B	0.00004	0.00004	0.00005
	A	!B	-0.00001	-0.00001	0.00004
	A	!B	0.00088	0.00106	0.00154
	B	A	0.00049	0.00058	0.00090
	B	A	0.00007	0.00007	0.00007
	B	A	-0.00006	-0.00006	-0.00006
	B	A	0.00147	0.00158	0.00189
	B	!A	0.00178	0.00191	0.00230
	B	!A	0.00001	0.00001	0.00002
	B	!A	-0.00002	-0.00002	0.00001
	B	!A	0.00135	0.00148	0.00186

Internal switching power(pJ) to Y falling (conditional):

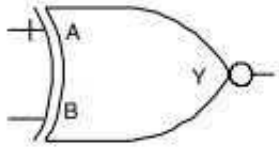
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X1H7R	A	B	0.00175	0.00199	0.00279
	A	B	-0.00004	-0.00004	-0.00004
	A	B	0.00006	0.00007	0.00008
	A	B	0.00050	0.00074	0.00154
	A	!B	0.00114	0.00135	0.00200
	A	!B	-0.00002	-0.00001	-0.00000
	A	!B	-0.00002	0.00001	0.00001
	A	!B	0.00187	0.00209	0.00277
	B	A	0.00206	0.00217	0.00255
	B	A	-0.00007	-0.00007	-0.00007
	B	A	0.00006	0.00006	0.00006
	B	A	0.00107	0.00117	0.00155
	B	!A	0.00131	0.00143	0.00176
	B	!A	-0.00001	-0.00001	0.00001
	B	!A	0.00001	0.00002	0.00002
	B	!A	0.00174	0.00185	0.00221

XNOR2X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X1P4H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X1P4H7R	0.00161	0.00084	0.06584

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X1P4H7R	0.00000	0.49084	0.69895

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X1P4H7R	A->Y (RR)	B	0.03481	0.17660	0.51946
	A->Y (FR)	!B	0.06326	0.21178	0.57382
	B->Y (RR)	A	0.05268	0.20629	0.57550
	B->Y (FR)	!A	0.07596	0.22795	0.59667

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X1P4H7R	A->Y (FF)	B	0.04949	0.17367	0.47158
	A->Y (RF)	!B	0.05201	0.16565	0.41694
	B->Y (FF)	A	0.06442	0.19718	0.51026
	B->Y (RF)	!A	0.07981	0.19413	0.44934

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X1P4H7R	A	B	0.00033	0.00055	0.00130
	A	B	0.00003	0.00004	0.00004
	A	B	-0.00005	-0.00004	-0.00004
	A	B	0.00157	0.00179	0.00254
	A	!B	0.00164	0.00179	0.00229
	A	!B	0.00003	0.00004	0.00004
	A	!B	-0.00000	-0.00000	0.00003
	A	!B	0.00091	0.00108	0.00155
	B	A	0.00052	0.00062	0.00095
	B	A	0.00006	0.00006	0.00007
	B	A	-0.00006	-0.00006	-0.00005
	B	A	0.00151	0.00162	0.00195
	B	!A	0.00183	0.00196	0.00235
	B	!A	0.00001	0.00001	0.00001
	B	!A	-0.00001	-0.00001	0.00001
	B	!A	0.00135	0.00151	0.00189

Internal switching power(pJ) to Y falling (conditional):

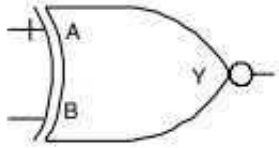
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X1P4H7R	A	B	0.00181	0.00205	0.00287
	A	B	-0.00004	-0.00004	-0.00003
	A	B	0.00006	0.00007	0.00007
	A	B	0.00056	0.00079	0.00161
	A	!B	0.00118	0.00139	0.00205
	A	!B	-0.00002	-0.00001	-0.00000
	A	!B	0.00000	0.00000	0.00001
	A	!B	0.00193	0.00215	0.00282
	B	A	0.00213	0.00223	0.00264
	B	A	-0.00007	-0.00006	-0.00006
	B	A	0.00006	0.00006	0.00006
	B	A	0.00113	0.00123	0.00164
	B	!A	0.00137	0.00147	0.00181
	B	!A	-0.00001	-0.00001	-0.00001
	B	!A	0.00000	0.00001	0.00001
	B	!A	0.00180	0.00192	0.00227

XNOR2X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X2H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X2H7R	0.00162	0.00084	0.08530

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X2H7R	0.00000	0.53628	0.77323

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X2H7R	A->Y (RR)	B	0.03986	0.18749	0.54039
	A->Y (FR)	!B	0.06809	0.21882	0.58363
	B->Y (RR)	A	0.05739	0.21463	0.59075
	B->Y (FR)	!A	0.08145	0.23556	0.60694

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X2H7R	A->Y (FF)	B	0.05748	0.18646	0.49152
	A->Y (RF)	!B	0.05703	0.17286	0.42382
	B->Y (FF)	A	0.07038	0.20631	0.52279
	B->Y (RF)	!A	0.08747	0.20351	0.45763

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X2H7R	A	B	0.00056	0.00080	0.00162
	A	B	0.00003	0.00003	0.00003
	A	B	-0.00004	-0.00004	-0.00003
	A	B	0.00178	0.00203	0.00285
	A	!B	0.00186	0.00203	0.00255
	A	!B	0.00003	0.00003	0.00003
	A	!B	0.00000	0.00000	0.00001
	A	!B	0.00114	0.00131	0.00180
	B	A	0.00076	0.00087	0.00126
	B	A	0.00005	0.00006	0.00006
	B	A	-0.00005	-0.00005	-0.00005
	B	A	0.00175	0.00186	0.00225
	B	!A	0.00206	0.00221	0.00263
	B	!A	0.00000	0.00000	0.00001
	B	!A	-0.00001	-0.00001	0.00001
	B	!A	0.00158	0.00175	0.00214

Internal switching power(pJ) to Y falling (conditional):

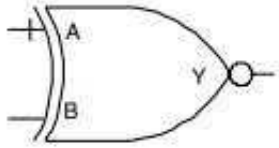
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X2H7R	A	B	0.00210	0.00234	0.00325
	A	B	-0.00003	-0.00003	-0.00003
	A	B	0.00006	0.00006	0.00007
	A	B	0.00085	0.00109	0.00201
	A	!B	0.00144	0.00167	0.00233
	A	!B	-0.00001	-0.00000	0.00001
	A	!B	-0.00001	-0.00000	0.00002
	A	!B	0.00219	0.00243	0.00315
	B	A	0.00241	0.00253	0.00302
	B	A	-0.00006	-0.00006	-0.00005
	B	A	0.00005	0.00005	0.00005
	B	A	0.00141	0.00153	0.00203
	B	!A	0.00165	0.00177	0.00211
	B	!A	-0.00001	0.00000	0.00002
	B	!A	0.00000	0.00001	0.00001
	B	!A	0.00209	0.00222	0.00258

XNOR2X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X3H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X3H7R	0.00168	0.00090	0.12052

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X3H7R	0.00000	0.65810	0.92939

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X3H7R	A->Y (RR)	B	0.03933	0.19001	0.55005
	A->Y (FR)	!B	0.06221	0.21235	0.57552
	B->Y (RR)	A	0.05241	0.20744	0.57816
	B->Y (FR)	!A	0.07108	0.22302	0.58919

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X3H7R	A->Y (FF)	B	0.05133	0.17925	0.47907
	A->Y (RF)	!B	0.05515	0.17248	0.42573
	B->Y (FF)	A	0.06435	0.19941	0.51191
	B->Y (RF)	!A	0.07764	0.19123	0.44130

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X3H7R	A	B	0.00073	0.00100	0.00199
	A	B	0.00001	0.00002	0.00002
	A	B	-0.00004	-0.00003	-0.00003
	A	B	0.00198	0.00225	0.00324
	A	!B	0.00209	0.00228	0.00283
	A	!B	0.00003	0.00003	0.00003
	A	!B	0.00001	0.00001	0.00001
	A	!B	0.00133	0.00152	0.00203
	B	A	0.00095	0.00110	0.00163
	B	A	0.00005	0.00005	0.00005
	B	A	-0.00005	-0.00005	-0.00005
	B	A	0.00198	0.00213	0.00266
	B	!A	0.00233	0.00252	0.00302
	B	!A	-0.00001	-0.00000	0.00000
	B	!A	-0.00000	-0.00000	0.00000
	B	!A	0.00184	0.00202	0.00252

Internal switching power(pJ) to Y falling (conditional):

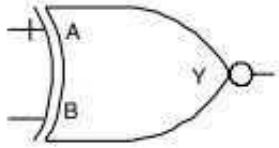
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X3H7R	A	B	0.00231	0.00258	0.00366
	A	B	-0.00002	-0.00002	0.00003
	A	B	0.00006	0.00006	0.00007
	A	B	0.00103	0.00130	0.00238
	A	!B	0.00164	0.00187	0.00257
	A	!B	-0.00001	0.00001	0.00002
	A	!B	-0.00001	-0.00001	-0.00001
	A	!B	0.00245	0.00269	0.00345
	B	A	0.00263	0.00278	0.00346
	B	A	-0.00005	-0.00005	-0.00005
	B	A	0.00005	0.00005	0.00005
	B	A	0.00160	0.00175	0.00243
	B	!A	0.00188	0.00203	0.00247
	B	!A	0.00000	0.00000	0.00002
	B	!A	0.00000	0.00000	0.00000
	B	!A	0.00237	0.00252	0.00297

XNOR2X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X4H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X4H7R	0.00170	0.00098	0.15417

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X4H7R	0.00000	0.79539	1.12074

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X4H7R	A->Y (RR)	B	0.04230	0.19676	0.56541
	A->Y (FR)	!B	0.06071	0.21058	0.57280
	B->Y (RR)	A	0.05284	0.20694	0.57419
	B->Y (FR)	!A	0.06797	0.21875	0.58245

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X4H7R	A->Y (FF)	B	0.04978	0.17383	0.46138
	A->Y (RF)	!B	0.05669	0.17198	0.41510
	B->Y (FF)	A	0.06399	0.19553	0.49568
	B->Y (RF)	!A	0.07466	0.18275	0.41861

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X4H7R	A	B	0.00101	0.00130	0.00249
	A	B	0.00000	0.00000	0.00001
	A	B	-0.00004	-0.00003	0.00001
	A	B	0.00226	0.00255	0.00374
	A	!B	0.00241	0.00262	0.00321
	A	!B	0.00003	0.00003	0.00003
	A	!B	0.00003	0.00003	0.00003
	A	!B	0.00163	0.00185	0.00240
	B	A	0.00123	0.00141	0.00211
	B	A	0.00004	0.00005	0.00005
	B	A	-0.00005	-0.00004	-0.00004
	B	A	0.00232	0.00250	0.00319
	B	!A	0.00276	0.00299	0.00364
	B	!A	-0.00001	-0.00001	-0.00001
	B	!A	0.00000	0.00000	0.00000
	B	!A	0.00221	0.00243	0.00303

Internal switching power(pJ) to Y falling (conditional):

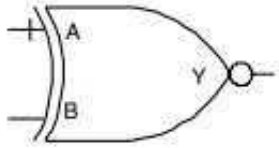
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X4H7R	A	B	0.00258	0.00292	0.00420
	A	B	-0.00001	-0.00000	0.00004
	A	B	0.00006	0.00007	0.00007
	A	B	0.00134	0.00163	0.00291
	A	!B	0.00196	0.00221	0.00295
	A	!B	0.00001	0.00002	0.00003
	A	!B	-0.00003	-0.00003	-0.00002
	A	!B	0.00279	0.00304	0.00379
	B	A	0.00303	0.00321	0.00411
	B	A	-0.00005	-0.00005	-0.00004
	B	A	0.00004	0.00004	0.00005
	B	A	0.00193	0.00211	0.00302
	B	!A	0.00222	0.00241	0.00295
	B	!A	0.00001	0.00001	0.00001
	B	!A	0.00000	0.00000	0.00000
	B	!A	0.00277	0.00296	0.00370

XNOR2X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR2 cell provides a logical EXCLUSIVE NOR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Footprint

Cell Name	Area
XNOR2X6H7R	4.48000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XNOR2X6H7R	0.00173	0.00140	0.23130

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR2X6H7R	0.00000	1.02828	1.47469

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X6H7R	A->Y (RR)	B	0.04463	0.20256	0.57759
	A->Y (FR)	!B	0.06509	0.21619	0.57799
	B->Y (RR)	A	0.05377	0.20781	0.57220
	B->Y (FR)	!A	0.07189	0.22225	0.58211

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR2X6H7R	A->Y (FF)	B	0.05956	0.19287	0.49778
	A->Y (RF)	!B	0.05783	0.17622	0.42343
	B->Y (FF)	A	0.06465	0.19726	0.49713
	B->Y (RF)	!A	0.08344	0.19430	0.43131

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X6H7R	A	B	0.00155	0.00191	0.00360
	A	B	-0.00003	-0.00003	-0.00003
	A	B	-0.00001	-0.00000	0.00000
	A	B	0.00276	0.00313	0.00481
	A	!B	0.00298	0.00323	0.00389
	A	!B	-0.00003	-0.00002	-0.00002
	A	!B	0.00000	0.00006	0.00006
	A	!B	0.00213	0.00238	0.00302
	B	A	0.00174	0.00199	0.00312
	B	A	0.00001	0.00002	0.00002
	B	A	-0.00002	-0.00002	-0.00002
	B	A	0.00308	0.00335	0.00447
	B	!A	0.00354	0.00387	0.00481
	B	!A	-0.00006	-0.00006	-0.00005
	B	!A	0.00003	0.00004	0.00004
	B	!A	0.00260	0.00293	0.00385

Internal switching power(pJ) to Y falling (conditional):

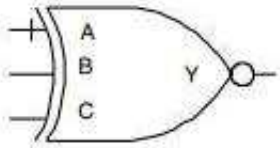
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR2X6H7R	A	B	0.00314	0.00354	0.00543
	A	B	0.00003	0.00003	0.00015
	A	B	0.00004	0.00004	0.00004
	A	B	0.00193	0.00229	0.00418
	A	!B	0.00252	0.00282	0.00375
	A	!B	0.00003	0.00006	0.00006
	A	!B	-0.00006	-0.00006	0.00000
	A	!B	0.00344	0.00373	0.00467
	B	A	0.00383	0.00411	0.00555
	B	A	-0.00002	-0.00002	-0.00001
	B	A	0.00002	0.00002	0.00002
	B	A	0.00247	0.00275	0.00419
	B	!A	0.00275	0.00302	0.00387
	B	!A	0.00005	0.00006	0.00006
	B	!A	-0.00004	-0.00004	-0.00003
	B	!A	0.00368	0.00395	0.00480

XNOR3X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X0P5H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X0P5H7R	0.00158	0.00084	0.00094	0.04248

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X0P5H7R	0.00000	0.79611	0.96045

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X0P5H7R	A->Y (-R)	-	0.09337	0.24926	0.63199
	B->Y (-R)	-	0.11342	0.27447	0.66742
	C->Y (RR)	(A * !B) + (!A * B)	0.05730	0.20831	0.57310
	C->Y (FR)	(A * B) + (!A * !B)	0.08851	0.24163	0.61467

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X0P5H7R	A->Y (-F)	-	0.12139	0.24386	0.52874
	B->Y (-F)	-	0.14167	0.27042	0.56803
	C->Y (FF)	(A * !B) + (!A * B)	0.06733	0.19662	0.50361
	C->Y (RF)	(A * B) + (!A * !B)	0.09362	0.20611	0.46030

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X0P5H7R	A	-	0.00263	0.00289	0.00373
	A	-	0.00012	0.00012	0.00012
	A	-	0.00000	0.00002	0.00003
	A	-	0.00301	0.00324	0.00400
	B	-	0.00281	0.00295	0.00338
	B	-	0.00011	0.00011	0.00012
	B	-	0.00003	0.00004	0.00006
	B	-	0.00307	0.00319	0.00355
	C	(A * B) + (!A * !B)	0.00209	0.00221	0.00257
	C	(A * B) + (!A * !B)	0.00002	0.00002	0.00003
	C	(A * B) + (!A * !B)	-0.00003	-0.00002	-0.00001
	C	(A * B) + (!A * !B)	0.00158	0.00170	0.00205
	C	(A * !B) + (!A * B)	0.00076	0.00085	0.00114
	C	(A * !B) + (!A * B)	0.00008	0.00008	0.00008
	C	(A * !B) + (!A * B)	-0.00007	-0.00007	-0.00006
	C	(A * !B) + (!A * B)	0.00159	0.00168	0.00197

Internal switching power(pJ) to Y falling (conditional):

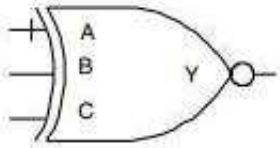
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X0P5H7R	A	-	0.00305	0.00329	0.00407
	A	-	0.00005	0.00005	0.00005
	A	-	0.00009	0.00011	0.00011
	A	-	0.00323	0.00335	0.00376
	B	-	0.00324	0.00335	0.00369
	B	-	0.00003	0.00003	0.00004
	B	-	0.00013	0.00013	0.00013
	B	-	0.00319	0.00330	0.00365
	C	(A * B) + (!A * !B)	0.00147	0.00157	0.00186
	C	(A * B) + (!A * !B)	-0.00003	-0.00002	-0.00002
	C	(A * B) + (!A * !B)	0.00001	0.00002	0.00003
	C	(A * B) + (!A * !B)	0.00197	0.00207	0.00239
	C	(A * !B) + (!A * B)	0.00180	0.00190	0.00225
	C	(A * !B) + (!A * B)	-0.00008	-0.00008	-0.00008
	C	(A * !B) + (!A * B)	0.00006	0.00007	0.00007
	C	(A * !B) + (!A * B)	0.00097	0.00108	0.00143

XNOR3X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X0P7H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X0P7H7R	0.00160	0.00084	0.00093	0.04831

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X0P7H7R	0.00000	0.80843	0.97813

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X0P7H7R	A->Y (-R)	-	0.09332	0.24995	0.63383
	B->Y (-R)	-	0.11358	0.27560	0.66993
	C->Y (RR)	(A * !B) + (!A * B)	0.05614	0.20784	0.57392
	C->Y (FR)	(A * B) + (!A * !B)	0.08764	0.24137	0.61605

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X0P7H7R	A->Y (-F)	-	0.12133	0.24455	0.53012
	B->Y (-F)	-	0.14184	0.27156	0.57030
	C->Y (FF)	(A * !B) + (!A * B)	0.06611	0.19613	0.50391
	C->Y (RF)	(A * B) + (!A * !B)	0.09309	0.20617	0.46049

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X0P7H7R	A	-	0.00267	0.00293	0.00377
	A	-	0.00011	0.00012	0.00012
	A	-	0.00002	0.00002	0.00002
	A	-	0.00303	0.00326	0.00402
	B	-	0.00288	0.00302	0.00344
	B	-	0.00010	0.00011	0.00011
	B	-	0.00004	0.00004	0.00004
	B	-	0.00309	0.00321	0.00357
	C	(A * B) + (!A * !B)	0.00210	0.00222	0.00261
	C	(A * B) + (!A * !B)	0.00001	0.00002	0.00002
	C	(A * B) + (!A * !B)	-0.00002	-0.00002	0.00001
	C	(A * B) + (!A * !B)	0.00159	0.00171	0.00206
	C	(A * !B) + (!A * B)	0.00079	0.00088	0.00118
	C	(A * !B) + (!A * B)	0.00007	0.00007	0.00008
	C	(A * !B) + (!A * B)	-0.00007	-0.00006	0.00004
	C	(A * !B) + (!A * B)	0.00155	0.00169	0.00199

Internal switching power(pJ) to Y falling (conditional):

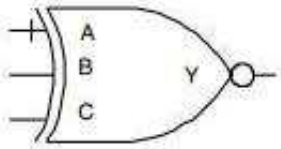
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X0P7H7R	A	-	0.00310	0.00333	0.00411
	A	-	0.00004	0.00005	0.00005
	A	-	0.00006	0.00010	0.00012
	A	-	0.00325	0.00338	0.00379
	B	-	0.00330	0.00341	0.00375
	B	-	0.00002	0.00004	0.00005
	B	-	0.00011	0.00013	0.00015
	B	-	0.00321	0.00332	0.00367
	C	(A * B) + (!A * !B)	0.00149	0.00159	0.00189
	C	(A * B) + (!A * !B)	-0.00002	-0.00002	-0.00001
	C	(A * B) + (!A * !B)	0.00001	0.00002	0.00004
	C	(A * B) + (!A * !B)	0.00200	0.00210	0.00240
	C	(A * !B) + (!A * B)	0.00180	0.00190	0.00227
	C	(A * !B) + (!A * B)	-0.00008	-0.00007	-0.00007
	C	(A * !B) + (!A * B)	0.00006	0.00006	0.00007
	C	(A * !B) + (!A * B)	0.00099	0.00109	0.00146

XNOR3X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X1H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X1H7R	0.00160	0.00084	0.00093	0.05742

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X1H7R	0.00000	0.82603	1.00234

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X1H7R	A->Y (-R)	-	0.09473	0.25192	0.63587
	B->Y (-R)	-	0.11497	0.27748	0.67205
	C->Y (RR)	(A * !B) + (!A * B)	0.05739	0.21025	0.57831
	C->Y (FR)	(A * B) + (!A * !B)	0.08757	0.24149	0.61447

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X1H7R	A->Y (-F)	-	0.12346	0.24920	0.53929
	B->Y (-F)	-	0.14392	0.27613	0.57944
	C->Y (FF)	(A * !B) + (!A * B)	0.06822	0.20140	0.51557
	C->Y (RF)	(A * B) + (!A * !B)	0.09393	0.20933	0.46751

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X1H7R	A	-	0.00274	0.00300	0.00384
	A	-	0.00011	0.00011	0.00011
	A	-	0.00000	0.00002	0.00005
	A	-	0.00311	0.00335	0.00412
	B	-	0.00295	0.00309	0.00351
	B	-	0.00010	0.00010	0.00011
	B	-	0.00002	0.00005	0.00007
	B	-	0.00317	0.00330	0.00367
	C	(A * B) + (!A * !B)	0.00216	0.00228	0.00266
	C	(A * B) + (!A * !B)	0.00001	0.00001	0.00002
	C	(A * B) + (!A * !B)	-0.00002	-0.00001	0.00001
	C	(A * B) + (!A * !B)	0.00164	0.00178	0.00214
	C	(A * !B) + (!A * B)	0.00087	0.00096	0.00126
	C	(A * !B) + (!A * B)	0.00007	0.00007	0.00007
	C	(A * !B) + (!A * B)	-0.00007	-0.00006	-0.00005
	C	(A * !B) + (!A * B)	0.00167	0.00177	0.00207

Internal switching power(pJ) to Y falling (conditional):

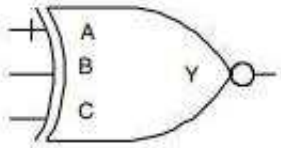
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X1H7R	A	-	0.00319	0.00343	0.00421
	A	-	0.00005	0.00005	0.00006
	A	-	0.00007	0.00010	0.00014
	A	-	0.00334	0.00347	0.00388
	B	-	0.00339	0.00351	0.00386
	B	-	0.00003	0.00004	0.00005
	B	-	0.00009	0.00012	0.00014
	B	-	0.00329	0.00342	0.00378
	C	(A * B) + (!A * !B)	0.00155	0.00167	0.00198
	C	(A * B) + (!A * !B)	-0.00002	-0.00001	-0.00000
	C	(A * B) + (!A * !B)	0.00000	0.00002	0.00002
	C	(A * B) + (!A * !B)	0.00206	0.00217	0.00250
	C	(A * !B) + (!A * B)	0.00191	0.00202	0.00240
	C	(A * !B) + (!A * B)	-0.00007	-0.00007	-0.00007
	C	(A * !B) + (!A * B)	0.00006	0.00006	0.00007
	C	(A * !B) + (!A * B)	0.00111	0.00122	0.00159

XNOR3X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X1P4H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X1P4H7R	0.00160	0.00088	0.00095	0.06737

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X1P4H7R	0.00000	0.85964	1.05087

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X1P4H7R	A->Y (-R)	-	0.09305	0.25085	0.63467
	B->Y (-R)	-	0.10992	0.27166	0.66268
	C->Y (RR)	(A * !B) + (!A * B)	0.05732	0.21122	0.58059
	C->Y (FR)	(A * B) + (!A * !B)	0.08764	0.24230	0.61656

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X1P4H7R	A->Y (-F)	-	0.12221	0.24806	0.53576
	B->Y (-F)	-	0.13931	0.27045	0.56844
	C->Y (FF)	(A * !B) + (!A * B)	0.06812	0.20190	0.51569
	C->Y (RF)	(A * B) + (!A * !B)	0.09431	0.21003	0.46666

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X1P4H7R	A	-	0.00279	0.00305	0.00389
	A	-	0.00011	0.00011	0.00015
	A	-	0.00001	0.00003	0.00008
	A	-	0.00315	0.00340	0.00417
	B	-	0.00302	0.00317	0.00362
	B	-	0.00009	0.00010	0.00010
	B	-	0.00005	0.00005	0.00009
	B	-	0.00324	0.00338	0.00379
	C	(A * B) + (!A * !B)	0.00221	0.00234	0.00276
	C	(A * B) + (!A * !B)	0.00000	0.00001	0.00001
	C	(A * B) + (!A * !B)	-0.00001	-0.00001	-0.00001
	C	(A * B) + (!A * !B)	0.00169	0.00183	0.00219
	C	(A * !B) + (!A * B)	0.00092	0.00102	0.00133
	C	(A * !B) + (!A * B)	0.00004	0.00006	0.00006
	C	(A * !B) + (!A * B)	-0.00006	-0.00006	-0.00004
	C	(A * !B) + (!A * B)	0.00172	0.00183	0.00215

Internal switching power(pJ) to Y falling (conditional):

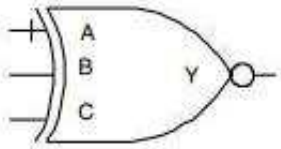
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X1P4H7R	A	-	0.00324	0.00349	0.00428
	A	-	0.00005	0.00006	0.00007
	A	-	0.00008	0.00010	0.00013
	A	-	0.00340	0.00354	0.00396
	B	-	0.00348	0.00361	0.00399
	B	-	0.00004	0.00005	0.00007
	B	-	0.00010	0.00012	0.00015
	B	-	0.00340	0.00353	0.00395
	C	(A * B) + (!A * !B)	0.00163	0.00173	0.00204
	C	(A * B) + (!A * !B)	-0.00001	-0.00001	0.00000
	C	(A * B) + (!A * !B)	0.00001	0.00001	0.00002
	C	(A * B) + (!A * !B)	0.00214	0.00225	0.00258
	C	(A * !B) + (!A * B)	0.00198	0.00208	0.00249
	C	(A * !B) + (!A * B)	-0.00006	-0.00006	-0.00004
	C	(A * !B) + (!A * B)	0.00005	0.00006	0.00006
	C	(A * !B) + (!A * B)	0.00116	0.00127	0.00168

XNOR3X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X2H7R	6.44000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X2H7R	0.00160	0.00091	0.00095	0.08487

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X2H7R	0.00000	0.91261	1.13561

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X2H7R	A->Y (-R)	-	0.09747	0.25729	0.64443
	B->Y (-R)	-	0.11171	0.27412	0.66463
	C->Y (RR)	(A * !B) + (!A * B)	0.06163	0.21906	0.59549
	C->Y (FR)	(A * B) + (!A * !B)	0.09278	0.24948	0.62542

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X2H7R	A->Y (-F)	-	0.12790	0.25602	0.54314
	B->Y (-F)	-	0.14238	0.27468	0.56991
	C->Y (FF)	(A * !B) + (!A * B)	0.07380	0.21135	0.53013
	C->Y (RF)	(A * B) + (!A * !B)	0.10155	0.21979	0.47703

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X2H7R	A	-	0.00299	0.00326	0.00415
	A	-	0.00009	0.00010	0.00010
	A	-	0.00000	0.00003	0.00007
	A	-	0.00333	0.00358	0.00437
	B	-	0.00322	0.00339	0.00393
	B	-	0.00009	0.00009	0.00010
	B	-	0.00002	0.00006	0.00010
	B	-	0.00343	0.00360	0.00406
	C	(A * B) + (!A * !B)	0.00241	0.00255	0.00293
	C	(A * B) + (!A * !B)	0.00000	0.00000	0.00001
	C	(A * B) + (!A * !B)	-0.00001	-0.00001	0.00000
	C	(A * B) + (!A * !B)	0.00189	0.00203	0.00241
	C	(A * !B) + (!A * B)	0.00111	0.00122	0.00160
	C	(A * !B) + (!A * B)	0.00005	0.00006	0.00006
	C	(A * !B) + (!A * B)	-0.00005	-0.00005	-0.00005
	C	(A * !B) + (!A * B)	0.00191	0.00202	0.00239

Internal switching power(pJ) to Y falling (conditional):

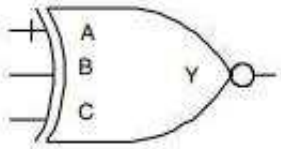
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X2H7R	A	-	0.00353	0.00377	0.00457
	A	-	0.00007	0.00007	0.00007
	A	-	0.00008	0.00009	0.00012
	A	-	0.00370	0.00383	0.00426
	B	-	0.00377	0.00391	0.00435
	B	-	0.00006	0.00006	0.00007
	B	-	0.00008	0.00012	0.00014
	B	-	0.00371	0.00385	0.00435
	C	(A * B) + (!A * !B)	0.00190	0.00201	0.00232
	C	(A * B) + (!A * !B)	-0.00001	-0.00000	0.00001
	C	(A * B) + (!A * !B)	0.00000	0.00001	0.00001
	C	(A * B) + (!A * !B)	0.00242	0.00253	0.00290
	C	(A * !B) + (!A * B)	0.00226	0.00238	0.00288
	C	(A * !B) + (!A * B)	-0.00006	-0.00006	-0.00005
	C	(A * !B) + (!A * B)	0.00005	0.00005	0.00005
	C	(A * !B) + (!A * B)	0.00147	0.00158	0.00208

XNOR3X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X3H7R	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X3H7R	0.00166	0.00095	0.00093	0.12028

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X3H7R	0.00000	1.13385	1.41040

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X3H7R	A->Y (-R)	-	0.08464	0.24333	0.62797
	B->Y (-R)	-	0.10046	0.26196	0.65056
	C->Y (RR)	(A * !B) + (!A * B)	0.05150	0.20536	0.57347
	C->Y (FR)	(A * B) + (!A * !B)	0.07859	0.23362	0.60716

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X3H7R	A->Y (-F)	-	0.10946	0.23634	0.52432
	B->Y (-F)	-	0.12561	0.25666	0.55192
	C->Y (FF)	(A * !B) + (!A * B)	0.06068	0.19503	0.50665
	C->Y (RF)	(A * B) + (!A * !B)	0.08527	0.20176	0.45874

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X3H7R	A	-	0.00333	0.00364	0.00470
	A	-	0.00011	0.00011	0.00011
	A	-	0.00004	0.00005	0.00010
	A	-	0.00374	0.00403	0.00499
	B	-	0.00368	0.00385	0.00443
	B	-	0.00008	0.00010	0.00010
	B	-	0.00001	0.00007	0.00008
	B	-	0.00385	0.00401	0.00451
	C	(A * B) + (!A * !B)	0.00272	0.00286	0.00335
	C	(A * B) + (!A * !B)	-0.00001	-0.00000	0.00002
	C	(A * B) + (!A * !B)	-0.00001	-0.00000	0.00000
	C	(A * B) + (!A * !B)	0.00219	0.00233	0.00274
	C	(A * !B) + (!A * B)	0.00130	0.00144	0.00197
	C	(A * !B) + (!A * B)	0.00006	0.00006	0.00006
	C	(A * !B) + (!A * B)	-0.00006	-0.00005	-0.00004
	C	(A * !B) + (!A * B)	0.00206	0.00223	0.00275

Internal switching power(pJ) to Y falling (conditional):

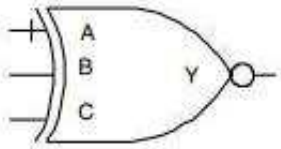
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X3H7R	A	-	0.00358	0.00387	0.00483
	A	-	0.00009	0.00010	0.00015
	A	-	0.00010	0.00011	0.00012
	A	-	0.00336	0.00365	0.00465
	B	-	0.00383	0.00399	0.00446
	B	-	0.00007	0.00008	0.00010
	B	-	0.00012	0.00013	0.00015
	B	-	0.00384	0.00400	0.00449
	C	(A * B) + (!A * !B)	0.00197	0.00208	0.00244
	C	(A * B) + (!A * !B)	-0.00002	0.00000	0.00002
	C	(A * B) + (!A * !B)	0.00000	0.00000	0.00005
	C	(A * B) + (!A * !B)	0.00250	0.00261	0.00300
	C	(A * !B) + (!A * B)	0.00224	0.00239	0.00304
	C	(A * !B) + (!A * B)	-0.00006	-0.00006	-0.00006
	C	(A * !B) + (!A * B)	0.00005	0.00005	0.00008
	C	(A * !B) + (!A * B)	0.00145	0.00160	0.00226

XNOR3X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X4H7R	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X4H7R	0.00208	0.00098	0.00104	0.15423

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X4H7R	0.00000	1.36691	1.71781

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X4H7R	A->Y (-R)	-	0.08799	0.24498	0.62571
	B->Y (-R)	-	0.10244	0.26490	0.65552
	C->Y (RR)	(A * !B) + (!A * B)	0.05193	0.20585	0.57359
	C->Y (FR)	(A * B) + (!A * !B)	0.07568	0.22983	0.60088

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X4H7R	A->Y (-F)	-	0.11011	0.23165	0.50414
	B->Y (-F)	-	0.12479	0.25307	0.53863
	C->Y (FF)	(A * !B) + (!A * B)	0.06067	0.19210	0.49348
	C->Y (RF)	(A * B) + (!A * !B)	0.08338	0.19478	0.43722

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X4H7R	A	-	0.00403	0.00442	0.00568
	A	-	0.00012	0.00013	0.00013
	A	-	0.00001	0.00006	0.00014
	A	-	0.00442	0.00481	0.00600
	B	-	0.00424	0.00444	0.00507
	B	-	0.00009	0.00010	0.00012
	B	-	0.00003	0.00009	0.00010
	B	-	0.00450	0.00469	0.00525
	C	(A * B) + (!A * !B)	0.00318	0.00337	0.00396
	C	(A * B) + (!A * !B)	-0.00001	-0.00001	0.00002
	C	(A * B) + (!A * !B)	0.00000	0.00000	0.00007
	C	(A * B) + (!A * !B)	0.00256	0.00275	0.00327
	C	(A * !B) + (!A * B)	0.00164	0.00183	0.00250
	C	(A * !B) + (!A * B)	0.00005	0.00006	0.00007
	C	(A * !B) + (!A * B)	-0.00006	-0.00006	-0.00004
	C	(A * !B) + (!A * B)	0.00251	0.00270	0.00337

Internal switching power(pJ) to Y falling (conditional):

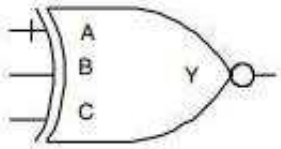
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X4H7R	A	-	0.00437	0.00473	0.00590
	A	-	0.00010	0.00012	0.00013
	A	-	0.00007	0.00012	0.00014
	A	-	0.00412	0.00447	0.00565
	B	-	0.00459	0.00476	0.00528
	B	-	0.00010	0.00010	0.00012
	B	-	0.00014	0.00015	0.00015
	B	-	0.00460	0.00478	0.00536
	C	(A * B) + (!A * !B)	0.00244	0.00259	0.00305
	C	(A * B) + (!A * !B)	0.00000	0.00001	0.00003
	C	(A * B) + (!A * !B)	-0.00000	-0.00000	0.00000
	C	(A * B) + (!A * !B)	0.00305	0.00321	0.00376
	C	(A * !B) + (!A * B)	0.00270	0.00289	0.00375
	C	(A * !B) + (!A * B)	-0.00007	-0.00006	-0.00005
	C	(A * !B) + (!A * B)	0.00004	0.00006	0.00006
	C	(A * !B) + (!A * B)	0.00182	0.00200	0.00287

XNOR3X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XNOR3 cell provides a logical EXCLUSIVE NOR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

Footprint

Cell Name	Area
XNOR3X6H7R	7.56000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XNOR3X6H7R	0.00206	0.00098	0.00105	0.23146

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XNOR3X6H7R	0.00000	1.53141	1.96164

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X6H7R	A->Y (-R)	-	0.09557	0.25515	0.63853
	B->Y (-R)	-	0.10996	0.27483	0.66767
	C->Y (RR)	(A * !B) + (!A * B)	0.05821	0.21709	0.59287
	C->Y (FR)	(A * B) + (!A * !B)	0.08276	0.23952	0.61204

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XNOR3X6H7R	A->Y (-F)	-	0.11935	0.24607	0.52427
	B->Y (-F)	-	0.13401	0.26740	0.55856
	C->Y (FF)	(A * !B) + (!A * B)	0.06906	0.20805	0.52171
	C->Y (RF)	(A * B) + (!A * !B)	0.09375	0.21059	0.45925

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X6H7R	A	-	0.00456	0.00498	0.00630
	A	-	0.00008	0.00009	0.00009
	A	-	0.00005	0.00009	0.00014
	A	-	0.00489	0.00527	0.00648
	B	-	0.00478	0.00501	0.00567
	B	-	0.00005	0.00006	0.00007
	B	-	0.00012	0.00013	0.00013
	B	-	0.00498	0.00519	0.00576
	C	(A * B) + (!A * !B)	0.00376	0.00396	0.00452
	C	(A * B) + (!A * !B)	-0.00006	-0.00005	0.00000
	C	(A * B) + (!A * !B)	0.00000	0.00003	0.00012
	C	(A * B) + (!A * !B)	0.00299	0.00327	0.00381
	C	(A * !B) + (!A * B)	0.00219	0.00239	0.00337
	C	(A * !B) + (!A * B)	0.00001	0.00002	0.00003
	C	(A * !B) + (!A * B)	-0.00003	-0.00002	-0.00001
	C	(A * !B) + (!A * B)	0.00298	0.00321	0.00418

Internal switching power(pJ) to Y falling (conditional):

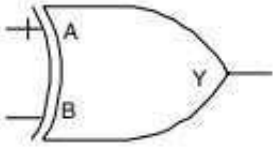
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XNOR3X6H7R	A	-	0.00489	0.00529	0.00649
	A	-	0.00016	0.00017	0.00017
	A	-	0.00008	0.00009	0.00013
	A	-	0.00470	0.00510	0.00641
	B	-	0.00509	0.00532	0.00587
	B	-	0.00010	0.00014	0.00014
	B	-	0.00009	0.00012	0.00013
	B	-	0.00523	0.00542	0.00598
	C	(A * B) + (!A * !B)	0.00301	0.00318	0.00373
	C	(A * B) + (!A * !B)	0.00000	0.00005	0.00006
	C	(A * B) + (!A * !B)	-0.00004	-0.00003	0.00000
	C	(A * B) + (!A * !B)	0.00370	0.00387	0.00443
	C	(A * !B) + (!A * B)	0.00329	0.00350	0.00478
	C	(A * !B) + (!A * B)	-0.00003	-0.00002	-0.00001
	C	(A * !B) + (!A * B)	0.00002	0.00002	0.00003
	C	(A * !B) + (!A * B)	0.00247	0.00268	0.00397

XOR2X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X0P5H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X0P5H7R	0.00157	0.00083	0.04273

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X0P5H7R	0.00000	0.44413	0.53686

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X0P5H7R	A->Y (RR)	!B	0.04223	0.18111	0.52020
	A->Y (FR)	B	0.05459	0.20365	0.56554
	B->Y (RR)	!A	0.05553	0.20604	0.57094
	B->Y (FR)	A	0.07633	0.22660	0.59365

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X0P5H7R	A->Y (FF)	!B	0.04207	0.16126	0.45040
	A->Y (RF)	B	0.07001	0.17563	0.41771
	B->Y (FF)	!A	0.06288	0.19154	0.49740
	B->Y (RF)	A	0.08098	0.19098	0.43971

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X0P5H7R	A	B	0.00153	0.00176	0.00242
	A	B	0.00001	0.00001	0.00002
	A	B	-0.00003	-0.00002	-0.00001
	A	B	0.00082	0.00104	0.00170
	A	!B	0.00045	0.00066	0.00137
	A	!B	0.00009	0.00009	0.00009
	A	!B	-0.00004	-0.00004	-0.00003
	A	!B	0.00169	0.00191	0.00262
	B	A	0.00165	0.00177	0.00216
	B	A	0.00002	0.00002	0.00002
	B	A	-0.00002	-0.00002	-0.00002
	B	A	0.00123	0.00136	0.00174
	B	!A	0.00076	0.00086	0.00116
	B	!A	0.00008	0.00008	0.00008
	B	!A	-0.00007	-0.00007	-0.00006
	B	!A	0.00176	0.00186	0.00216

Internal switching power(pJ) to Y falling (conditional):

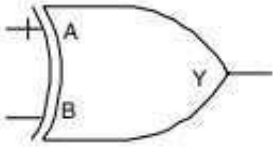
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X0P5H7R	A	B	0.00110	0.00122	0.00162
	A	B	-0.00001	-0.00001	-0.00001
	A	B	0.00004	0.00005	0.00005
	A	B	0.00178	0.00190	0.00232
	A	!B	0.00146	0.00170	0.00249
	A	!B	-0.00007	-0.00006	-0.00006
	A	!B	0.00004	0.00004	0.00005
	A	!B	0.00024	0.00048	0.00127
	B	A	0.00132	0.00144	0.00177
	B	A	-0.00002	-0.00002	-0.00002
	B	A	0.00002	0.00002	0.00002
	B	A	0.00174	0.00185	0.00219
	B	!A	0.00163	0.00174	0.00209
	B	!A	-0.00008	-0.00008	-0.00008
	B	!A	0.00006	0.00007	0.00007
	B	!A	0.00063	0.00073	0.00109

XOR2X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X0P7H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X0P7H7R	0.00157	0.00084	0.04845

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X0P7H7R	0.00000	0.45645	0.55454

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X0P7H7R	A->Y (RR)	!B	0.04119	0.18078	0.52086
	A->Y (FR)	B	0.05370	0.20313	0.56554
	B->Y (RR)	!A	0.05525	0.20666	0.57329
	B->Y (FR)	A	0.07613	0.22697	0.59506

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X0P7H7R	A->Y (FF)	!B	0.04123	0.16117	0.45099
	A->Y (RF)	B	0.06933	0.17541	0.41753
	B->Y (FF)	!A	0.06294	0.19259	0.49981
	B->Y (RF)	A	0.08053	0.19144	0.44097

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X0P7H7R	A	B	0.00155	0.00178	0.00244
	A	B	0.00001	0.00001	0.00002
	A	B	-0.00003	-0.00002	-0.00001
	A	B	0.00083	0.00106	0.00171
	A	!B	0.00047	0.00068	0.00139
	A	!B	0.00009	0.00009	0.00009
	A	!B	-0.00004	-0.00004	-0.00002
	A	!B	0.00169	0.00193	0.00265
	B	A	0.00170	0.00183	0.00221
	B	A	0.00002	0.00002	0.00002
	B	A	-0.00002	-0.00002	-0.00002
	B	A	0.00126	0.00139	0.00177
	B	!A	0.00078	0.00088	0.00118
	B	!A	0.00007	0.00007	0.00008
	B	!A	-0.00007	-0.00006	-0.00006
	B	!A	0.00179	0.00188	0.00219

Internal switching power(pJ) to Y falling (conditional):

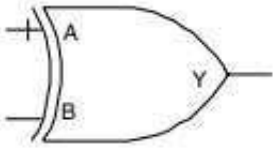
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X0P7H7R	A	B	0.00111	0.00124	0.00164
	A	B	-0.00001	-0.00001	-0.00001
	A	B	0.00004	0.00004	0.00004
	A	B	0.00180	0.00193	0.00233
	A	!B	0.00149	0.00173	0.00253
	A	!B	-0.00007	-0.00006	-0.00006
	A	!B	0.00003	0.00004	0.00005
	A	!B	0.00026	0.00050	0.00130
	B	A	0.00133	0.00145	0.00178
	B	A	-0.00002	-0.00002	-0.00002
	B	A	0.00002	0.00002	0.00002
	B	A	0.00177	0.00188	0.00223
	B	!A	0.00169	0.00180	0.00216
	B	!A	-0.00008	-0.00007	-0.00007
	B	!A	0.00006	0.00006	0.00007
	B	!A	0.00069	0.00079	0.00116

XOR2X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X1H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X1H7R	0.00156	0.00084	0.05780

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X1H7R	0.00000	0.47405	0.57875

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X1H7R	A->Y (RR)	!B	0.04055	0.18138	0.52350
	A->Y (FR)	B	0.05259	0.20265	0.56542
	B->Y (RR)	!A	0.05458	0.20694	0.57458
	B->Y (FR)	A	0.07545	0.22702	0.59571

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X1H7R	A->Y (FF)	!B	0.04097	0.16401	0.46028
	A->Y (RF)	B	0.06886	0.17747	0.42480
	B->Y (FF)	!A	0.06265	0.19510	0.50826
	B->Y (RF)	A	0.08045	0.19396	0.44912

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X1H7R	A	B	0.00159	0.00181	0.00247
	A	B	0.00000	0.00000	0.00000
	A	B	-0.00003	-0.00002	-0.00000
	A	B	0.00086	0.00109	0.00175
	A	!B	0.00051	0.00073	0.00146
	A	!B	0.00008	0.00008	0.00008
	A	!B	-0.00004	-0.00004	-0.00004
	A	!B	0.00175	0.00196	0.00269
	B	A	0.00174	0.00187	0.00226
	B	A	0.00001	0.00001	0.00002
	B	A	-0.00003	-0.00002	0.00001
	B	A	0.00130	0.00143	0.00181
	B	!A	0.00083	0.00092	0.00124
	B	!A	0.00007	0.00007	0.00007
	B	!A	-0.00006	-0.00006	-0.00006
	B	!A	0.00183	0.00192	0.00224

Internal switching power(pJ) to Y falling (conditional):

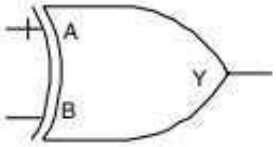
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X1H7R	A	B	0.00114	0.00128	0.00168
	A	B	-0.00000	-0.00000	0.00002
	A	B	0.00000	0.00004	0.00008
	A	B	0.00184	0.00197	0.00239
	A	!B	0.00151	0.00175	0.00257
	A	!B	-0.00006	-0.00006	-0.00005
	A	!B	0.00004	0.00004	0.00004
	A	!B	0.00030	0.00054	0.00136
	B	A	0.00137	0.00148	0.00181
	B	A	-0.00002	-0.00001	0.00000
	B	A	0.00000	0.00002	0.00004
	B	A	0.00180	0.00192	0.00231
	B	!A	0.00172	0.00184	0.00222
	B	!A	-0.00007	-0.00007	-0.00007
	B	!A	0.00006	0.00006	0.00006
	B	!A	0.00073	0.00084	0.00122

XOR2X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X1P4H7R	2.80000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X1P4H7R	0.00156	0.00084	0.06591

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X1P4H7R	0.00000	0.49084	0.60275

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X1P4H7R	A->Y (RR)	!B	0.04031	0.18199	0.52534
	A->Y (FR)	B	0.05225	0.20274	0.56625
	B->Y (RR)	!A	0.05430	0.20723	0.57570
	B->Y (FR)	A	0.07531	0.22722	0.59590

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X1P4H7R	A->Y (FF)	!B	0.04073	0.16473	0.46172
	A->Y (RF)	B	0.06894	0.17812	0.42566
	B->Y (FF)	!A	0.06238	0.19555	0.50893
	B->Y (RF)	A	0.08053	0.19456	0.44946

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X1P4H7R	A	B	0.00162	0.00185	0.00254
	A	B	-0.00000	-0.00000	0.00001
	A	B	-0.00003	-0.00001	0.00001
	A	B	0.00089	0.00112	0.00178
	A	!B	0.00055	0.00077	0.00152
	A	!B	0.00008	0.00008	0.00008
	A	!B	-0.00003	-0.00003	-0.00001
	A	!B	0.00176	0.00200	0.00275
	B	A	0.00178	0.00191	0.00230
	B	A	0.00001	0.00001	0.00001
	B	A	-0.00002	-0.00001	-0.00001
	B	A	0.00134	0.00147	0.00185
	B	!A	0.00087	0.00096	0.00130
	B	!A	0.00006	0.00006	0.00007
	B	!A	-0.00006	-0.00006	-0.00006
	B	!A	0.00186	0.00196	0.00229

Internal switching power(pJ) to Y falling (conditional):

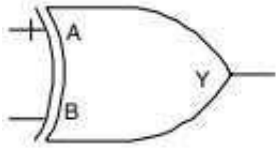
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X1P4H7R	A	B	0.00119	0.00131	0.00171
	A	B	-0.00001	0.00000	0.00002
	A	B	0.00002	0.00004	0.00006
	A	B	0.00188	0.00201	0.00247
	A	!B	0.00153	0.00178	0.00261
	A	!B	-0.00005	-0.00005	-0.00004
	A	!B	0.00003	0.00003	0.00004
	A	!B	0.00033	0.00058	0.00141
	B	A	0.00139	0.00151	0.00185
	B	A	-0.00001	-0.00001	0.00002
	B	A	0.00001	0.00001	0.00003
	B	A	0.00184	0.00196	0.00235
	B	!A	0.00175	0.00187	0.00228
	B	!A	-0.00007	-0.00006	-0.00006
	B	!A	0.00006	0.00006	0.00006
	B	!A	0.00077	0.00087	0.00128

XOR2X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X2H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X2H7R	0.00158	0.00084	0.08527

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X2H7R	0.00000	0.53628	0.67704

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X2H7R	A->Y (RR)	!B	0.04655	0.19404	0.54807
	A->Y (FR)	B	0.05651	0.20946	0.57593
	B->Y (RR)	!A	0.05925	0.21592	0.59096
	B->Y (FR)	A	0.08165	0.23574	0.60705

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X2H7R	A->Y (FF)	!B	0.04808	0.17767	0.48207
	A->Y (RF)	B	0.07668	0.18805	0.43390
	B->Y (FF)	!A	0.06864	0.20510	0.52232
	B->Y (RF)	A	0.08931	0.20530	0.45907

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X2H7R	A	B	0.00185	0.00209	0.00278
	A	B	-0.00001	-0.00001	0.00000
	A	B	-0.00001	-0.00001	-0.00000
	A	B	0.00111	0.00134	0.00201
	A	!B	0.00079	0.00102	0.00185
	A	!B	0.00007	0.00007	0.00007
	A	!B	-0.00003	-0.00003	-0.00002
	A	!B	0.00202	0.00225	0.00307
	B	A	0.00202	0.00217	0.00260
	B	A	0.00000	0.00000	0.00000
	B	A	-0.00001	-0.00001	-0.00000
	B	A	0.00157	0.00172	0.00211
	B	!A	0.00110	0.00121	0.00160
	B	!A	0.00005	0.00006	0.00006
	B	!A	-0.00005	-0.00005	-0.00005
	B	!A	0.00208	0.00219	0.00259

Internal switching power(pJ) to Y falling (conditional):

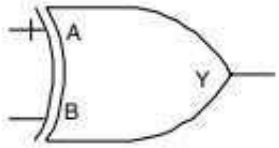
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X2H7R	A	B	0.00149	0.00162	0.00202
	A	B	0.00000	0.00001	0.00001
	A	B	0.00001	0.00003	0.00003
	A	B	0.00220	0.00233	0.00275
	A	!B	0.00184	0.00209	0.00300
	A	!B	-0.00005	-0.00004	-0.00003
	A	!B	0.00002	0.00003	0.00003
	A	!B	0.00064	0.00089	0.00181
	B	A	0.00171	0.00184	0.00217
	B	A	-0.00000	-0.00000	0.00001
	B	A	0.00000	0.00001	0.00001
	B	A	0.00217	0.00229	0.00265
	B	!A	0.00206	0.00218	0.00267
	B	!A	-0.00006	-0.00006	-0.00005
	B	!A	0.00005	0.00005	0.00005
	B	!A	0.00108	0.00120	0.00169

XOR2X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X3H7R	3.36000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X3H7R	0.00164	0.00092	0.12040

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X3H7R	0.00000	0.67284	0.84058

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X3H7R	A->Y (RR)	!B	0.03945	0.18387	0.52955
	A->Y (FR)	B	0.05420	0.20742	0.57367
	B->Y (RR)	!A	0.05368	0.20720	0.57469
	B->Y (FR)	A	0.06866	0.21965	0.58439

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X3H7R	A->Y (FF)	!B	0.04661	0.17828	0.48819
	A->Y (RF)	B	0.06608	0.17601	0.42074
	B->Y (FF)	!A	0.06056	0.19485	0.50476
	B->Y (RF)	A	0.07577	0.18823	0.43720

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X3H7R	A	B	0.00210	0.00237	0.00313
	A	B	-0.00003	-0.00002	0.00000
	A	B	-0.00001	-0.00000	0.00000
	A	B	0.00131	0.00158	0.00231
	A	!B	0.00098	0.00125	0.00223
	A	!B	0.00008	0.00008	0.00008
	A	!B	-0.00002	-0.00002	-0.00002
	A	!B	0.00225	0.00252	0.00350
	B	A	0.00231	0.00250	0.00307
	B	A	-0.00000	-0.00000	0.00000
	B	A	-0.00001	-0.00000	0.00000
	B	A	0.00181	0.00200	0.00252
	B	!A	0.00132	0.00146	0.00202
	B	!A	0.00005	0.00006	0.00006
	B	!A	-0.00005	-0.00005	-0.00004
	B	!A	0.00237	0.00252	0.00307

Internal switching power(pJ) to Y falling (conditional):

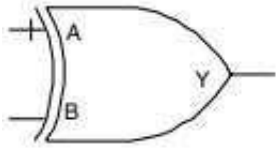
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X3H7R	A	B	0.00167	0.00183	0.00228
	A	B	0.00000	0.00002	0.00004
	A	B	0.00000	0.00003	0.00004
	A	B	0.00242	0.00257	0.00317
	A	!B	0.00201	0.00230	0.00340
	A	!B	-0.00006	-0.00004	-0.00003
	A	!B	0.00002	0.00002	0.00002
	A	!B	0.00078	0.00106	0.00216
	B	A	0.00195	0.00211	0.00258
	B	A	0.00000	0.00000	0.00005
	B	A	0.00000	0.00000	0.00001
	B	A	0.00246	0.00262	0.00312
	B	!A	0.00229	0.00244	0.00313
	B	!A	-0.00006	-0.00006	-0.00005
	B	!A	0.00004	0.00005	0.00005
	B	!A	0.00123	0.00139	0.00208

XOR2X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X4H7R	3.64000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X4H7R	0.00165	0.00098	0.15469

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X4H7R	0.00000	0.79539	1.01512

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X4H7R	A->Y (RR)	!B	0.03907	0.18454	0.53128
	A->Y (FR)	B	0.05691	0.21202	0.58065
	B->Y (RR)	!A	0.05445	0.20786	0.57413
	B->Y (FR)	A	0.06678	0.21762	0.58173

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X4H7R	A->Y (FF)	!B	0.04986	0.18176	0.48882
	A->Y (RF)	B	0.06688	0.17412	0.40911
	B->Y (FF)	!A	0.06114	0.19306	0.49387
	B->Y (RF)	A	0.07511	0.18292	0.41861

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X4H7R	A	B	0.00240	0.00266	0.00341
	A	B	-0.00004	-0.00004	-0.00003
	A	B	-0.00000	0.00001	0.00003
	A	B	0.00155	0.00184	0.00259
	A	!B	0.00126	0.00156	0.00268
	A	!B	0.00007	0.00007	0.00007
	A	!B	-0.00001	-0.00001	-0.00000
	A	!B	0.00252	0.00282	0.00394
	B	A	0.00264	0.00287	0.00351
	B	A	-0.00001	-0.00001	-0.00001
	B	A	0.00000	0.00000	0.00004
	B	A	0.00208	0.00232	0.00292
	B	!A	0.00159	0.00176	0.00247
	B	!A	0.00004	0.00005	0.00005
	B	!A	-0.00005	-0.00004	-0.00004
	B	!A	0.00265	0.00284	0.00354

Internal switching power(pJ) to Y falling (conditional):

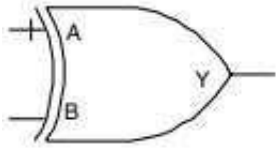
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X4H7R	A	B	0.00200	0.00215	0.00261
	A	B	0.00004	0.00004	0.00004
	A	B	0.00003	0.00003	0.00004
	A	B	0.00276	0.00292	0.00352
	A	!B	0.00229	0.00259	0.00389
	A	!B	-0.00003	-0.00003	0.00001
	A	!B	0.00000	0.00001	0.00001
	A	!B	0.00107	0.00137	0.00267
	B	A	0.00230	0.00249	0.00303
	B	A	0.00001	0.00001	0.00001
	B	A	-0.00000	-0.00000	0.00000
	B	A	0.00286	0.00305	0.00365
	B	!A	0.00261	0.00279	0.00369
	B	!A	-0.00005	-0.00005	-0.00004
	B	!A	0.00004	0.00004	0.00005
	B	!A	0.00154	0.00172	0.00263

XOR2X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR2 cell provides a logical EXCLUSIVE OR of two inputs (A, B). The output (Y) is represented by the logic equation:



Truth Table

INPUT		OUTPUT
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

Footprint

Cell Name	Area
XOR2X6H7R	4.20000

Pin Capacitance Information

Cell Name	Pin Cap(pf)		Max Cap(pf)
	A	B	Y
XOR2X6H7R	0.00171	0.00140	0.23127

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR2X6H7R	0.00000	1.02792	1.35643

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X6H7R	A->Y (RR)	!B	0.04579	0.19796	0.55758
	A->Y (FR)	B	0.05673	0.21207	0.57849
	B->Y (RR)	!A	0.05513	0.20817	0.57120
	B->Y (FR)	A	0.07091	0.22112	0.58140

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR2X6H7R	A->Y (FF)	!B	0.05348	0.19003	0.50512
	A->Y (RF)	B	0.07529	0.18626	0.42491
	B->Y (FF)	!A	0.06158	0.19432	0.49430
	B->Y (RF)	A	0.08387	0.19442	0.43083

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X6H7R	A	B	0.00292	0.00324	0.00411
	A	B	-0.00008	-0.00008	-0.00006
	A	B	0.00000	0.00004	0.00004
	A	B	0.00201	0.00232	0.00316
	A	!B	0.00178	0.00213	0.00374
	A	!B	0.00004	0.00004	0.00004
	A	!B	0.00001	0.00002	0.00002
	A	!B	0.00302	0.00337	0.00498
	B	A	0.00339	0.00372	0.00472
	B	A	-0.00006	-0.00006	-0.00006
	B	A	0.00000	0.00004	0.00004
	B	A	0.00245	0.00278	0.00370
	B	!A	0.00207	0.00233	0.00347
	B	!A	0.00001	0.00002	0.00003
	B	!A	-0.00003	-0.00002	-0.00001
	B	!A	0.00340	0.00368	0.00480

Internal switching power(pJ) to Y falling (conditional):

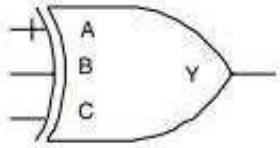
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR2X6H7R	A	B	0.00254	0.00273	0.00332
	A	B	0.00008	0.00008	0.00008
	A	B	-0.00000	-0.00000	0.00000
	A	B	0.00341	0.00360	0.00423
	A	!B	0.00288	0.00326	0.00504
	A	!B	-0.00000	0.00001	0.00003
	A	!B	-0.00002	-0.00002	-0.00001
	A	!B	0.00170	0.00205	0.00384
	B	A	0.00284	0.00311	0.00396
	B	A	0.00006	0.00006	0.00006
	B	A	-0.00004	-0.00004	0.00000
	B	A	0.00378	0.00405	0.00490
	B	!A	0.00338	0.00366	0.00510
	B	!A	-0.00003	-0.00002	-0.00001
	B	!A	0.00002	0.00002	0.00003
	B	!A	0.00204	0.00231	0.00376

XOR3X0P5H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X0P5H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X0P5H7R	0.00158	0.00082	0.00091	0.04250

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X0P5H7R	0.00000	0.79611	0.99053

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X0P5H7R	A->Y (-R)	-	0.10332	0.25940	0.64408
	B->Y (-R)	-	0.11597	0.27709	0.67045
	C->Y (RR)	(A * B) + (!A * !B)	0.05800	0.20927	0.57469
	C->Y (FR)	(A * !B) + (!A * B)	0.08964	0.24301	0.61727

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X0P5H7R	A->Y (-F)	-	0.13254	0.25519	0.54146
	B->Y (-F)	-	0.14563	0.27453	0.57284
	C->Y (FF)	(A * B) + (!A * !B)	0.06800	0.19761	0.50533
	C->Y (RF)	(A * !B) + (!A * B)	0.09495	0.20770	0.46209

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X0P5H7R	A	-	0.00289	0.00315	0.00399
	A	-	0.00008	0.00008	0.00009
	A	-	0.00005	0.00005	0.00005
	A	-	0.00313	0.00335	0.00401
	B	-	0.00322	0.00335	0.00378
	B	-	0.00011	0.00011	0.00011
	B	-	0.00004	0.00004	0.00007
	B	-	0.00302	0.00314	0.00348
	C	(A * B) + (!A * !B)	0.00079	0.00089	0.00117
	C	(A * B) + (!A * !B)	0.00008	0.00008	0.00008
	C	(A * B) + (!A * !B)	-0.00007	-0.00007	-0.00006
	C	(A * B) + (!A * !B)	0.00159	0.00169	0.00198
	C	(A * !B) + (!A * B)	0.00211	0.00223	0.00261
	C	(A * !B) + (!A * B)	0.00002	0.00002	0.00003
	C	(A * !B) + (!A * B)	-0.00002	-0.00002	-0.00000
	C	(A * !B) + (!A * B)	0.00161	0.00173	0.00208

Internal switching power(pJ) to Y falling (conditional):

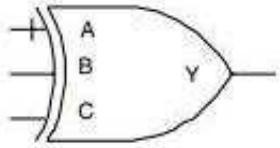
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X0P5H7R	A	-	0.00333	0.00356	0.00432
	A	-	-0.00003	0.00001	0.00002
	A	-	0.00012	0.00014	0.00014
	A	-	0.00328	0.00350	0.00415
	B	-	0.00365	0.00376	0.00410
	B	-	0.00003	0.00003	0.00004
	B	-	0.00013	0.00013	0.00013
	B	-	0.00316	0.00328	0.00364
	C	(A * B) + (!A * !B)	0.00180	0.00191	0.00225
	C	(A * B) + (!A * !B)	-0.00008	-0.00008	-0.00008
	C	(A * B) + (!A * !B)	0.00006	0.00007	0.00007
	C	(A * B) + (!A * !B)	0.00100	0.00110	0.00145
	C	(A * !B) + (!A * B)	0.00149	0.00159	0.00189
	C	(A * !B) + (!A * B)	-0.00002	-0.00002	-0.00001
	C	(A * !B) + (!A * B)	0.00000	0.00002	0.00004
	C	(A * !B) + (!A * B)	0.00199	0.00210	0.00239

XOR3X0P7H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X0P7H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X0P7H7R	0.00159	0.00082	0.00092	0.04822

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X0P7H7R	0.00000	0.80843	1.00821

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X0P7H7R	A->Y (-R)	-	0.10149	0.25788	0.64288
	B->Y (-R)	-	0.11435	0.27576	0.66899
	C->Y (RR)	(A * B) + (!A * !B)	0.05647	0.20811	0.57421
	C->Y (FR)	(A * !B) + (!A * B)	0.08772	0.24133	0.61503

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X0P7H7R	A->Y (-F)	-	0.12998	0.25295	0.53889
	B->Y (-F)	-	0.14326	0.27248	0.57036
	C->Y (FF)	(A * B) + (!A * !B)	0.06648	0.19656	0.50443
	C->Y (RF)	(A * !B) + (!A * B)	0.09309	0.20619	0.46045

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X0P7H7R	A	-	0.00288	0.00314	0.00399
	A	-	0.00007	0.00008	0.00008
	A	-	0.00005	0.00005	0.00005
	A	-	0.00313	0.00334	0.00400
	B	-	0.00320	0.00334	0.00376
	B	-	0.00010	0.00011	0.00011
	B	-	0.00004	0.00004	0.00004
	B	-	0.00301	0.00313	0.00347
	C	(A * B) + (!A * !B)	0.00079	0.00089	0.00118
	C	(A * B) + (!A * !B)	0.00007	0.00007	0.00008
	C	(A * B) + (!A * !B)	-0.00007	-0.00006	-0.00006
	C	(A * B) + (!A * !B)	0.00160	0.00170	0.00199
	C	(A * !B) + (!A * B)	0.00211	0.00223	0.00260
	C	(A * !B) + (!A * B)	0.00001	0.00002	0.00002
	C	(A * !B) + (!A * B)	-0.00002	-0.00002	0.00001
	C	(A * !B) + (!A * B)	0.00158	0.00172	0.00207

Internal switching power(pJ) to Y falling (conditional):

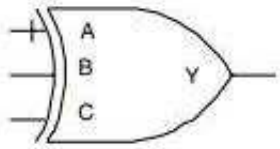
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X0P7H7R	A	-	0.00331	0.00354	0.00430
	A	-	0.00000	0.00001	0.00002
	A	-	0.00009	0.00013	0.00015
	A	-	0.00327	0.00348	0.00415
	B	-	0.00362	0.00375	0.00409
	B	-	0.00002	0.00004	0.00004
	B	-	0.00012	0.00013	0.00015
	B	-	0.00316	0.00326	0.00361
	C	(A * B) + (!A * !B)	0.00181	0.00192	0.00228
	C	(A * B) + (!A * !B)	-0.00008	-0.00007	-0.00007
	C	(A * B) + (!A * !B)	0.00006	0.00006	0.00007
	C	(A * B) + (!A * !B)	0.00101	0.00111	0.00147
	C	(A * !B) + (!A * B)	0.00149	0.00159	0.00189
	C	(A * !B) + (!A * B)	-0.00002	-0.00002	-0.00001
	C	(A * !B) + (!A * B)	0.00002	0.00002	0.00003
	C	(A * !B) + (!A * B)	0.00199	0.00210	0.00240

XOR3X1H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X1H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X1H7R	0.00158	0.00082	0.00095	0.05754

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X1H7R	0.00000	0.82603	1.03242

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X1H7R	A->Y (-R)	-	0.10332	0.26079	0.64696
	B->Y (-R)	-	0.11606	0.27852	0.67343
	C->Y (RR)	(A * B) + (!A * !B)	0.05742	0.21057	0.57914
	C->Y (FR)	(A * !B) + (!A * B)	0.08723	0.24139	0.61502

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X1H7R	A->Y (-F)	-	0.13242	0.25835	0.55039
	B->Y (-F)	-	0.14560	0.27773	0.58160
	C->Y (FF)	(A * B) + (!A * !B)	0.06828	0.20167	0.51637
	C->Y (RF)	(A * !B) + (!A * B)	0.09356	0.20916	0.46764

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X1H7R	A	-	0.00294	0.00321	0.00405
	A	-	0.00007	0.00007	0.00011
	A	-	0.00000	0.00005	0.00006
	A	-	0.00319	0.00343	0.00409
	B	-	0.00326	0.00342	0.00385
	B	-	0.00010	0.00010	0.00011
	B	-	0.00002	0.00005	0.00007
	B	-	0.00308	0.00321	0.00356
	C	(A * B) + (!A * !B)	0.00087	0.00096	0.00126
	C	(A * B) + (!A * !B)	0.00006	0.00007	0.00007
	C	(A * B) + (!A * !B)	-0.00007	-0.00006	-0.00005
	C	(A * B) + (!A * !B)	0.00168	0.00178	0.00208
	C	(A * !B) + (!A * B)	0.00215	0.00228	0.00265
	C	(A * !B) + (!A * B)	0.00000	0.00001	0.00002
	C	(A * !B) + (!A * B)	-0.00004	-0.00002	0.00001
	C	(A * !B) + (!A * B)	0.00164	0.00178	0.00214

Internal switching power(pJ) to Y falling (conditional):

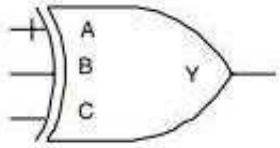
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X1H7R	A	-	0.00342	0.00364	0.00441
	A	-	-0.00000	0.00002	0.00003
	A	-	0.00010	0.00013	0.00015
	A	-	0.00336	0.00358	0.00424
	B	-	0.00373	0.00385	0.00420
	B	-	0.00004	0.00004	0.00005
	B	-	0.00011	0.00012	0.00015
	B	-	0.00323	0.00336	0.00372
	C	(A * B) + (!A * !B)	0.00191	0.00202	0.00240
	C	(A * B) + (!A * !B)	-0.00007	-0.00007	-0.00006
	C	(A * B) + (!A * !B)	0.00005	0.00006	0.00007
	C	(A * B) + (!A * !B)	0.00110	0.00120	0.00158
	C	(A * !B) + (!A * B)	0.00154	0.00167	0.00197
	C	(A * !B) + (!A * B)	-0.00002	-0.00001	0.00000
	C	(A * !B) + (!A * B)	0.00001	0.00002	0.00004
	C	(A * !B) + (!A * B)	0.00205	0.00216	0.00248

XOR3X1P4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X1P4H7R	5.88000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X1P4H7R	0.00158	0.00082	0.00096	0.06562

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X1P4H7R	0.00000	0.85228	1.06116

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X1P4H7R	A->Y (-R)	-	0.10378	0.26181	0.64854
	B->Y (-R)	-	0.11660	0.27952	0.67462
	C->Y (RR)	(A * B) + (!A * !B)	0.05701	0.21076	0.58016
	C->Y (FR)	(A * !B) + (!A * B)	0.08682	0.24134	0.61577

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X1P4H7R	A->Y (-F)	-	0.13033	0.25671	0.54771
	B->Y (-F)	-	0.14356	0.27618	0.57931
	C->Y (FF)	(A * B) + (!A * !B)	0.06806	0.20219	0.51743
	C->Y (RF)	(A * !B) + (!A * B)	0.09337	0.20951	0.46853

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X1P4H7R	A	-	0.00298	0.00325	0.00410
	A	-	0.00006	0.00006	0.00009
	A	-	0.00003	0.00006	0.00009
	A	-	0.00322	0.00346	0.00413
	B	-	0.00332	0.00346	0.00390
	B	-	0.00008	0.00009	0.00010
	B	-	0.00001	0.00004	0.00005
	B	-	0.00313	0.00325	0.00360
	C	(A * B) + (!A * !B)	0.00090	0.00100	0.00131
	C	(A * B) + (!A * !B)	0.00006	0.00006	0.00007
	C	(A * B) + (!A * !B)	-0.00006	-0.00006	-0.00004
	C	(A * B) + (!A * !B)	0.00171	0.00182	0.00214
	C	(A * !B) + (!A * B)	0.00218	0.00232	0.00273
	C	(A * !B) + (!A * B)	0.00001	0.00001	0.00001
	C	(A * !B) + (!A * B)	-0.00002	-0.00001	0.00001
	C	(A * !B) + (!A * B)	0.00165	0.00180	0.00217

Internal switching power(pJ) to Y falling (conditional):

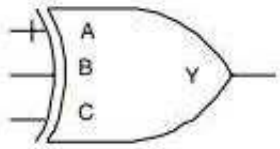
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X1P4H7R	A	-	0.00345	0.00368	0.00446
	A	-	0.00000	0.00002	0.00004
	A	-	0.00011	0.00013	0.00016
	A	-	0.00338	0.00362	0.00429
	B	-	0.00377	0.00389	0.00425
	B	-	0.00003	0.00005	0.00006
	B	-	0.00010	0.00012	0.00015
	B	-	0.00329	0.00340	0.00378
	C	(A * B) + (!A * !B)	0.00196	0.00206	0.00246
	C	(A * B) + (!A * !B)	-0.00007	-0.00006	-0.00006
	C	(A * B) + (!A * !B)	0.00006	0.00006	0.00006
	C	(A * B) + (!A * !B)	0.00113	0.00124	0.00164
	C	(A * !B) + (!A * B)	0.00159	0.00170	0.00201
	C	(A * !B) + (!A * B)	-0.00001	-0.00001	0.00001
	C	(A * !B) + (!A * B)	0.00000	0.00001	0.00003
	C	(A * !B) + (!A * B)	0.00210	0.00221	0.00258

XOR3X2H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X2H7R	6.16000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X2H7R	0.00159	0.00082	0.00092	0.08479

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X2H7R	0.00000	0.91261	1.14438

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X2H7R	A->Y (-R)	-	0.11199	0.27248	0.66357
	B->Y (-R)	-	0.12434	0.28934	0.68809
	C->Y (RR)	(A * B) + (!A * !B)	0.06033	0.21746	0.59284
	C->Y (FR)	(A * !B) + (!A * B)	0.09158	0.24793	0.62326

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X2H7R	A->Y (-F)	-	0.13592	0.26421	0.55463
	B->Y (-F)	-	0.14860	0.28290	0.58473
	C->Y (FF)	(A * B) + (!A * !B)	0.07295	0.20989	0.52765
	C->Y (RF)	(A * !B) + (!A * B)	0.10002	0.21779	0.47458

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X2H7R	A	-	0.00323	0.00351	0.00438
	A	-	-0.00000	0.00003	0.00007
	A	-	0.00006	0.00006	0.00011
	A	-	0.00344	0.00368	0.00437
	B	-	0.00353	0.00371	0.00419
	B	-	0.00007	0.00008	0.00008
	B	-	0.00002	0.00005	0.00008
	B	-	0.00335	0.00347	0.00384
	C	(A * B) + (!A * !B)	0.00110	0.00120	0.00159
	C	(A * B) + (!A * !B)	0.00006	0.00006	0.00006
	C	(A * B) + (!A * !B)	-0.00006	-0.00005	-0.00005
	C	(A * B) + (!A * !B)	0.00187	0.00198	0.00236
	C	(A * !B) + (!A * B)	0.00239	0.00253	0.00293
	C	(A * !B) + (!A * B)	0.00000	0.00000	0.00000
	C	(A * !B) + (!A * B)	-0.00001	-0.00001	-0.00000
	C	(A * !B) + (!A * B)	0.00187	0.00201	0.00238

Internal switching power(pJ) to Y falling (conditional):

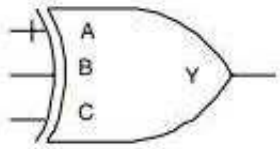
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X2H7R	A	-	0.00374	0.00399	0.00479
	A	-	-0.00001	0.00002	0.00005
	A	-	0.00011	0.00012	0.00013
	A	-	0.00372	0.00395	0.00463
	B	-	0.00407	0.00419	0.00458
	B	-	0.00004	0.00005	0.00006
	B	-	0.00010	0.00011	0.00012
	B	-	0.00361	0.00373	0.00411
	C	(A * B) + (!A * !B)	0.00223	0.00234	0.00284
	C	(A * B) + (!A * !B)	-0.00006	-0.00006	-0.00006
	C	(A * B) + (!A * !B)	0.00005	0.00005	0.00006
	C	(A * B) + (!A * !B)	0.00146	0.00157	0.00207
	C	(A * !B) + (!A * B)	0.00186	0.00197	0.00228
	C	(A * !B) + (!A * B)	-0.00000	-0.00000	0.00000
	C	(A * !B) + (!A * B)	0.00000	0.00001	0.00002
	C	(A * !B) + (!A * B)	0.00238	0.00249	0.00282

XOR3X3H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X3H7R	6.72000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X3H7R	0.00173	0.00092	0.00093	0.12029

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X3H7R	0.00000	1.14756	1.42664

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X3H7R	A->Y (-R)	-	0.08947	0.24638	0.62671
	B->Y (-R)	-	0.10434	0.26615	0.65582
	C->Y (RR)	(A * B) + (!A * !B)	0.05183	0.20560	0.57343
	C->Y (FR)	(A * !B) + (!A * B)	0.07633	0.23044	0.60188

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X3H7R	A->Y (-F)	-	0.11476	0.23969	0.52267
	B->Y (-F)	-	0.12939	0.26047	0.55675
	C->Y (FF)	(A * B) + (!A * !B)	0.06006	0.19412	0.50400
	C->Y (RF)	(A * !B) + (!A * B)	0.08290	0.19857	0.45420

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X3H7R	A	-	0.00364	0.00397	0.00505
	A	-	0.00006	0.00006	0.00008
	A	-	0.00007	0.00010	0.00014
	A	-	0.00383	0.00412	0.00495
	B	-	0.00398	0.00418	0.00473
	B	-	0.00009	0.00010	0.00010
	B	-	0.00002	0.00007	0.00013
	B	-	0.00372	0.00391	0.00439
	C	(A * B) + (!A * !B)	0.00134	0.00150	0.00205
	C	(A * B) + (!A * !B)	0.00006	0.00006	0.00006
	C	(A * B) + (!A * !B)	-0.00006	-0.00006	-0.00005
	C	(A * B) + (!A * !B)	0.00214	0.00230	0.00284
	C	(A * !B) + (!A * B)	0.00270	0.00285	0.00336
	C	(A * !B) + (!A * B)	-0.00000	-0.00000	0.00000
	C	(A * !B) + (!A * B)	-0.00001	-0.00000	0.00000
	C	(A * !B) + (!A * B)	0.00218	0.00233	0.00277

Internal switching power(pJ) to Y falling (conditional):

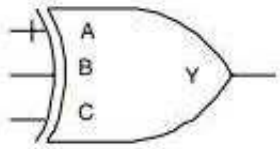
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X3H7R	A	-	0.00400	0.00429	0.00528
	A	-	0.00003	0.00004	0.00005
	A	-	0.00015	0.00015	0.00021
	A	-	0.00395	0.00422	0.00508
	B	-	0.00435	0.00450	0.00496
	B	-	0.00006	0.00007	0.00009
	B	-	0.00011	0.00013	0.00018
	B	-	0.00384	0.00401	0.00450
	C	(A * B) + (!A * !B)	0.00227	0.00243	0.00310
	C	(A * B) + (!A * !B)	-0.00006	-0.00006	-0.00006
	C	(A * B) + (!A * !B)	0.00005	0.00006	0.00006
	C	(A * B) + (!A * !B)	0.00147	0.00163	0.00231
	C	(A * !B) + (!A * B)	0.00206	0.00219	0.00258
	C	(A * !B) + (!A * B)	0.00000	0.00000	0.00002
	C	(A * !B) + (!A * B)	0.00000	0.00001	0.00005
	C	(A * !B) + (!A * B)	0.00258	0.00271	0.00313

XOR3X4H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X4H7R	7.00000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X4H7R	0.00187	0.00099	0.00097	0.15417

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X4H7R	0.00000	1.36343	1.70980

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X4H7R	A->Y (-R)	-	0.08773	0.24466	0.62333
	B->Y (-R)	-	0.10159	0.26374	0.65330
	C->Y (RR)	(A * B) + (!A * !B)	0.05046	0.20397	0.57032
	C->Y (FR)	(A * !B) + (!A * B)	0.07477	0.22864	0.59887

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X4H7R	A->Y (-F)	-	0.11214	0.23358	0.50343
	B->Y (-F)	-	0.12613	0.25432	0.53910
	C->Y (FF)	(A * B) + (!A * !B)	0.05867	0.18989	0.49012
	C->Y (RF)	(A * !B) + (!A * B)	0.08325	0.19436	0.43568

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X4H7R	A	-	0.00411	0.00450	0.00575
	A	-	0.00005	0.00006	0.00007
	A	-	0.00006	0.00012	0.00018
	A	-	0.00438	0.00475	0.00568
	B	-	0.00451	0.00473	0.00536
	B	-	0.00008	0.00010	0.00010
	B	-	0.00004	0.00009	0.00015
	B	-	0.00418	0.00439	0.00495
	C	(A * B) + (!A * !B)	0.00161	0.00179	0.00248
	C	(A * B) + (!A * !B)	0.00006	0.00006	0.00006
	C	(A * B) + (!A * !B)	-0.00006	-0.00006	-0.00005
	C	(A * B) + (!A * !B)	0.00243	0.00261	0.00331
	C	(A * !B) + (!A * B)	0.00305	0.00324	0.00387
	C	(A * !B) + (!A * B)	-0.00001	-0.00001	0.00000
	C	(A * !B) + (!A * B)	-0.00000	0.00000	0.00004
	C	(A * !B) + (!A * B)	0.00242	0.00265	0.00319

Internal switching power(pJ) to Y falling (conditional):

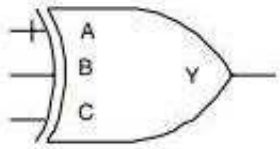
Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X4H7R	A	-	0.00457	0.00491	0.00603
	A	-	0.00005	0.00006	0.00007
	A	-	0.00014	0.00017	0.00019
	A	-	0.00468	0.00498	0.00608
	B	-	0.00498	0.00516	0.00568
	B	-	0.00009	0.00010	0.00011
	B	-	0.00011	0.00014	0.00014
	B	-	0.00443	0.00461	0.00521
	C	(A * B) + (!A * !B)	0.00255	0.00276	0.00364
	C	(A * B) + (!A * !B)	-0.00006	-0.00006	-0.00005
	C	(A * B) + (!A * !B)	0.00005	0.00006	0.00006
	C	(A * B) + (!A * !B)	0.00175	0.00193	0.00281
	C	(A * !B) + (!A * B)	0.00249	0.00265	0.00312
	C	(A * !B) + (!A * B)	0.00000	0.00001	0.00004
	C	(A * !B) + (!A * B)	-0.00000	0.00000	0.00002
	C	(A * !B) + (!A * B)	0.00307	0.00323	0.00374

XOR3X6H7R

tt Cell Library: Process DTT_PTYPICAL_V1P2_T25, Voltage 1.20, Temp 25.00

Cell Description

The XOR3 cell provides a logical EXCLUSIVE OR of three inputs (A, B, C). The output (Y) is represented by the following equation:



Truth Table

INPUT			OUTPUT
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

Footprint

Cell Name	Area
XOR3X6H7R	7.28000

Pin Capacitance Information

Cell Name	Pin Cap(pf)			Max Cap(pf)
	A	B	C	Y
XOR3X6H7R	0.00185	0.00098	0.00106	0.23151

Leakage Information

Cell Name	Leakage(nW)		
	Min.	Avg	Max.
XOR3X6H7R	0.00000	1.52793	1.95364

Delay Information

Delay(ns) to Y rising (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X6H7R	A->Y (-R)	-	0.09705	0.25648	0.63792
	B->Y (-R)	-	0.11107	0.27554	0.66762
	C->Y (RR)	(A * B) + (!A * !B)	0.05895	0.21787	0.59399
	C->Y (FR)	(A * !B) + (!A * B)	0.08345	0.24004	0.61196

Delay(ns) to Y falling (conditional):

Cell Name	Timing Arc(Dir)	When	Delay(ns)		
			Min	Avg	Max
XOR3X6H7R	A->Y (-F)	-	0.12391	0.25059	0.52690
	B->Y (-F)	-	0.13791	0.27134	0.56249
	C->Y (FF)	(A * B) + (!A * !B)	0.06958	0.20897	0.52318
	C->Y (RF)	(A * !B) + (!A * B)	0.09519	0.21208	0.46053

Power Information

Internal switching power(pJ) to Y rising (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X6H7R	A	-	0.00477	0.00517	0.00645
	A	-	0.00002	0.00003	0.00004
	A	-	0.00014	0.00015	0.00015
	A	-	0.00504	0.00537	0.00632
	B	-	0.00520	0.00542	0.00608
	B	-	0.00006	0.00006	0.00007
	B	-	0.00012	0.00012	0.00013
	B	-	0.00481	0.00502	0.00560
	C	(A * B) + (!A * !B)	0.00227	0.00248	0.00346
	C	(A * B) + (!A * !B)	0.00001	0.00002	0.00003
	C	(A * B) + (!A * !B)	-0.00003	-0.00002	-0.00000
	C	(A * B) + (!A * !B)	0.00306	0.00330	0.00426
	C	(A * !B) + (!A * B)	0.00377	0.00398	0.00460
	C	(A * !B) + (!A * B)	-0.00006	-0.00005	0.00000
	C	(A * !B) + (!A * B)	0.00000	0.00003	0.00011
	C	(A * !B) + (!A * B)	0.00305	0.00329	0.00384

Internal switching power(pJ) to Y falling (conditional):

Cell Name	Input	When	Power(pJ)		
			min	avg	max
XOR3X6H7R	A	-	0.00514	0.00553	0.00668
	A	-	0.00009	0.00010	0.00013
	A	-	0.00013	0.00014	0.00015
	A	-	0.00531	0.00566	0.00667
	B	-	0.00556	0.00579	0.00634
	B	-	0.00011	0.00014	0.00014
	B	-	0.00010	0.00011	0.00015
	B	-	0.00511	0.00530	0.00587
	C	(A * B) + (!A * !B)	0.00327	0.00349	0.00476
	C	(A * B) + (!A * !B)	-0.00003	-0.00002	-0.00001
	C	(A * B) + (!A * !B)	0.00002	0.00002	0.00003
	C	(A * B) + (!A * !B)	0.00245	0.00266	0.00394
	C	(A * !B) + (!A * B)	0.00307	0.00327	0.00383
	C	(A * !B) + (!A * B)	0.00000	0.00005	0.00013
	C	(A * !B) + (!A * B)	-0.00004	-0.00003	0.00000
	C	(A * !B) + (!A * B)	0.00379	0.00396	0.00452